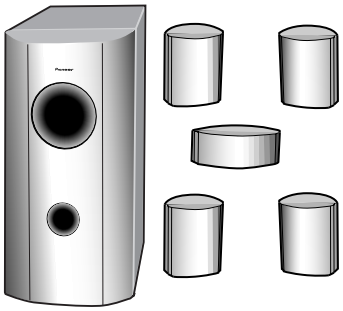
Pioneer sound.vision.soul

Service Manual



ORDER NO.
RRV2507

SPEAKER SYSTEM

S-DV77
S-DV77SW
S-DV77ST

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Type	Model	Power Requirement	The voltage can be converted by the following method.
	S-DV77		
DBXJI	○	AC110-127V/220-230V/240V	With the voltage selector
DLXJI/NC	○	AC110-127V/220-230V/240V	With the voltage selector
YPWXJI	○	AC240V	

● **This product is component of system.**

Component	System	Service Manual	Remarks
DVD/CD TUNER	XV-DV88, XV-DV77	RRV2480	
SPEAKER SYSTEM	S-DV77	RRV2507	
POWERED SUBWOOFER	S-DV77SW		
SATELLITE SPEAKER	S-DV77ST		

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PIONEER EUROPE NV Haven 1087, Keetberglaan 1, 9120 Melsele, Belgium
PIONEER ELECTRONICS ASIACENTRE PTE. LTD. 253 Alexandra Road, #04-01, Singapore 159936

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1. SAFETY INFORMATION

This service manual is intended for qualified service technicians ; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.
Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING
This product contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm.

Health & Safety Code Section 25249.6 – Proposition 65

NOTICE
(FOR CANADIAN MODEL ONLY)
Fuse symbols (fast operating fuse) and/or (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

REMARQUE
(POUR MODÈLE CANADIEN SEULEMENT)
Les symboles de fusible (fusible de type rapide) et/ou (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

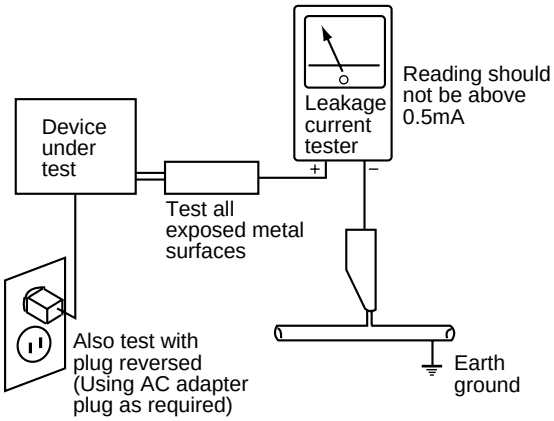
(FOR USA MODEL ONLY)

1. SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Measure leakage current to a known earth ground (water pipe, conduit, etc.) by connecting a leakage current tester such as Simpson Model 229-2 or equivalent between the earth ground and all exposed metal parts of the appliance (input/output terminals, screwheads, metal overlays, control shaft, etc.). Plug the AC line cord of the appliance directly into a 120V AC 60Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5mA.


Device under test
Leakage current tester
+
–
Reading should not be above 0.5mA
Test all exposed metal surfaces
Also test with plug reversed (Using AC adapter plug as required)
Earth ground

AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

2. PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in the appliance have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a ⚠ on the schematics and on the parts list in this Service Manual.

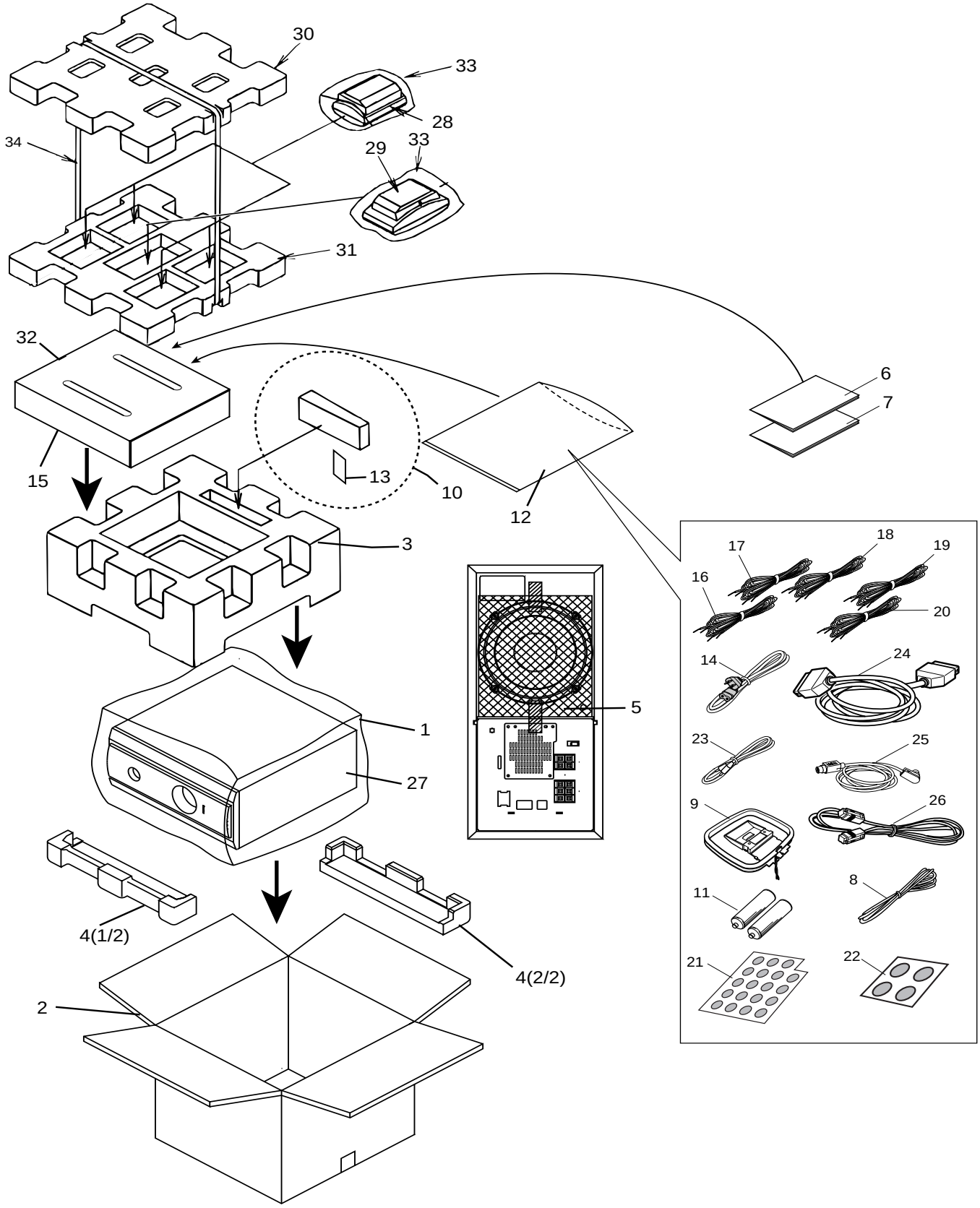
The use of a substitute replacement component which does not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

2. EXPLODED VIEWS AND PARTS LIST

NOTES:
- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Screws adjacent to ▼ mark on the product are used for disassembly.*

2.1 PACKING



(1) PACKING PARTS LIST

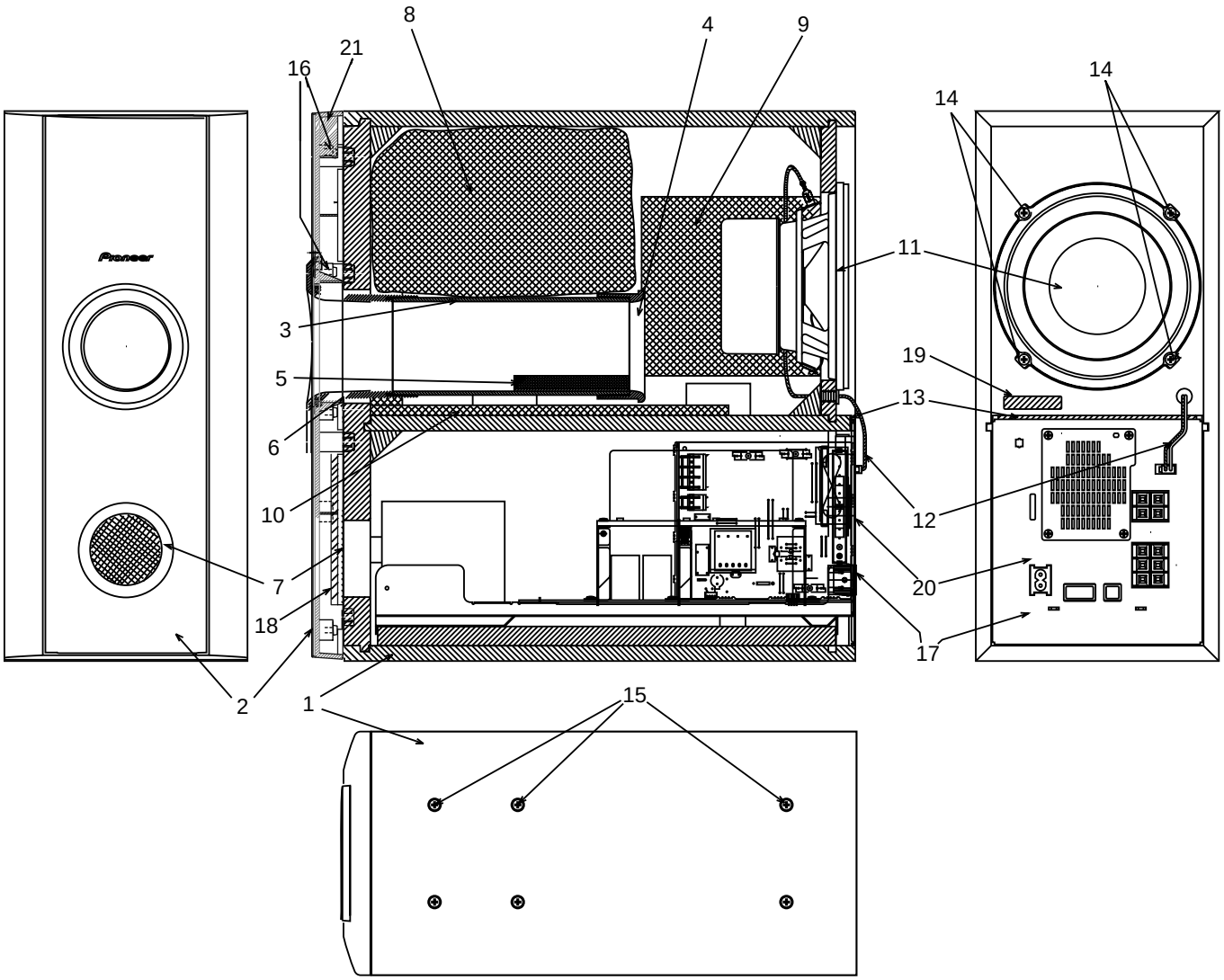
Mark	No.	Description	Part No.
	1	Poly Bag S6	SHL1292
	2	Packig Case	See Contrast table (2)
	3	Protector (Top)	SHA2313
	4	Protector (Bottom)	SHA2314
	5	Protector	SHB1097
	6	Operating Instructions (English/Chinese)	ARE7294
	7	Operating Instructions (Setting up : English/Chinese)	ARE7295
	8	FM Antenna	ADH7004
	9	AM Loop Antenna	ATB7009
	10	Remote Control	AXD7305
NSP	11	Dry Cell Batteries (R6P/AA)	VEM-013
	12	Polyethylene Bag S3	SHL1293
	13	Battery Cover	103RRC14701R
⚠	14	AC Power Cord	See Contrast table (2)
NSP	15	Accessary Set	See Contrast table (2)
	16	Speaker Cord(5m:Red)	SDS1115
	17	Speaker Cord(5m:White)	SDS1116
	18	Speaker Cord(5m:Green)	SDS1117
	19	Speaker Cord(10m:Blue)	SDS1118
	20	Speaker Cord(10m:Gray)	SDS1119
	21	Non-Skid Pads	SEC1541
	22	Non-Skid Pads	SEC1563
	23	Cord With Plug	VDE1053
	24	20P Cable	ADE7078
	25	10P Cable	ADE7077
	26	12P Cable	ADE7063
NSP	27	Powered Subwoofer	See Contrast table (2)
NSP	28	Satellite Speakers (Front / Rear)	See Contrast table (2)
NSP	29	Satellite Speaker (Center)	See Contrast table (2)
	30	Protector (Top)	SHA2315
	31	Protector (Bottom)	SHA2316
	32	Accesary Box	SHG2342
	33	Polyethylene Bag S2	SHL1223
NSP	34	PP Band (15.5mm)	ZPX-PPBAND-15R5

(2) CONTRAST TABLE

S-DV77/DBXJI, DLXJI/NC and YPWXJI are constructed the same except for the following:

Mark	No.	Symbol and Description	Part No.			Remarks
			/DBXJI	/DLXJI/NC	/YPWXJI	
	2	Packing Case	SHG2375	SHG2376	SHG2378	
⚠	14	AC Power Cord	ADG1158	ADG1154	ADG1160	
NSP	15	Accessary Set	SME3237	SME3238	SME3240	
NSP	27	Powered Subwoofer	S-DV77SW/DBXJI	S-DV77SW/DLXJI/NC	S-DV77SW/YPWXJI	
NSP	28	Satellite Speakers (Front / Rear)	S-DV77ST/XJI/EW	S-DV77ST/XJI/NC	S-DV77ST/XJI/EW	
NSP	29	Satellite Speaker (Center)	S-DV77ST/XJI/EW	S-DV77ST/XJI/NC	S-DV77ST/XJI/EW	

2.2 POWERED WOOFER SECTION (S-DV77SW)



(1) POWERED WOOFER PARTS LIST

Mark	No.	Description	Part No.
NSP	1	Cabinet	SMM1954
NSP	2	Cosmetic Duct	SMR1336
NSP	3	Paper Tube 70	SMR1348
NSP	4	Duct Ring	SMR1339
	5	Damper	SER1300
	6	Packing	SEC1539
NSP	7	Mesh	SNC1188
NSP	8	Acoustic Absorbent (Polyester Fiber)	SMV2079
NSP	9	Acoustic Absorbent (Duffel Felt)	SMV2077
NSP	10	Acoustic Absorbent (Duffel Felt)	SMV2078
	11	Speaker	T16EU92-51C
	12	Conecting Cord	SDF1092
	13	Packing	SEC1540
	14	Screw (M4×16) (for Speaker)	BYC40P160FZB
	15	Screw (M4×18) (for Amplifier Assy fixing)	BYC40P180FZB
	16	Screw (M4×12) (for Cosmetic Duct)	BPZ40P120FZK
NSP	17	AMPLIFIER Assy	See Contrast table(2)
	18	Packing	SEC1561
	19	Serial Label	See Contrast table(2)
	20	Rear Panel	See Contrast table(2)
	21	Cosmetic Baffle	SNK2520

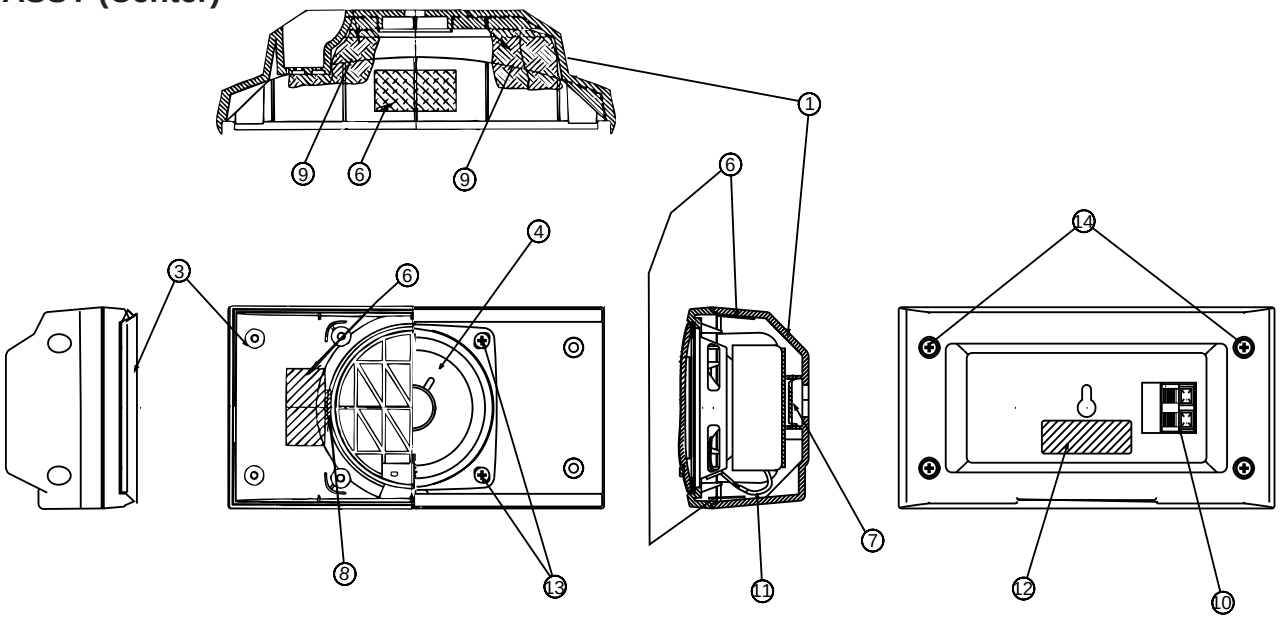
(2) CONTRAST TABLE

S-DV77/DBXJI, DLXJI/NC and YPWXJI are constructed the same except for the following:

Mark	No.	Symbol and Description	Part No.			Remarks
			/DBXJI	/DLXJI/NC	/YPWXJI	
NSP	17	AMPLIFIER ASSY	AXX7108	AXX7110	AXX7111	Refer to 2.4 section.
NSP		└DVD AMP	AWM7643	AWM7658	AWM7644	
NSP	19	Serial Label	SME3200	SME3201	SME3203	
	20	Rear Panel	ANC8023	ANC8058	ANC8059	

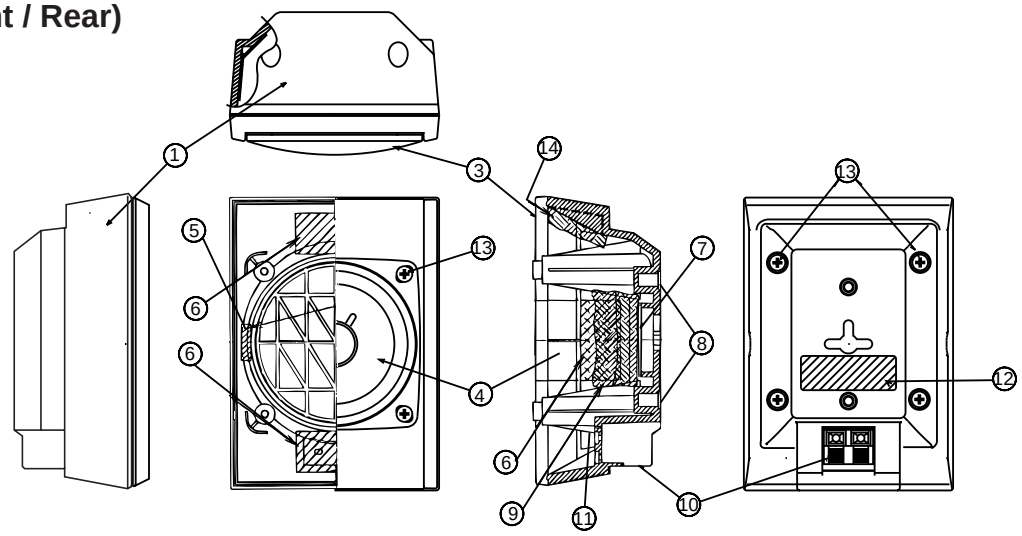
2.3 SATELLITE SPEAKER SECTION (S-DV77ST)

● CS ASSY (Center)



No.	Part name	Num	Remarks	No.	Part name	Num	Remarks
1	Cabinet	1		8	Packing	2	
2	• • •			9	Acoustic Absorbent	2	
3	Grille	1		10	Input Terminal	1	
4	Speaker	1		11	Speaker Wire	1	
5	• • •			12	Label Back	1	
6	Damper	4		13	Screw (M4 × 8)	4	
7	Packing	1		14	Screw (M4 ×14)	4	

● CS ASSY (Front / Rear)



No.	Part name	Num	Remarks	No.	Part name	Num	Remarks
1	Cabinet	1		8	Fin-Lok (M5)	2	
2	• • •			9	Acoustic Absorbent	1	
3	Grille	1		10	Input Terminal	1	
4	Speaker	1		11	Speaker Wire	1	
5	Packing	2		12	Label Back	1	
6	Damper	4		13	Screw (M4 ×14)	4	
7	Packing	1		14	Acoustic Absorbent	1	

● SATELLITE SPEAKER PARTS LIST

Mark	No.	Description	Part No.
NSP		CS ASSY (Center)	SMW1657
NSP		CS ASSY (Front/Rear)	SMW1658

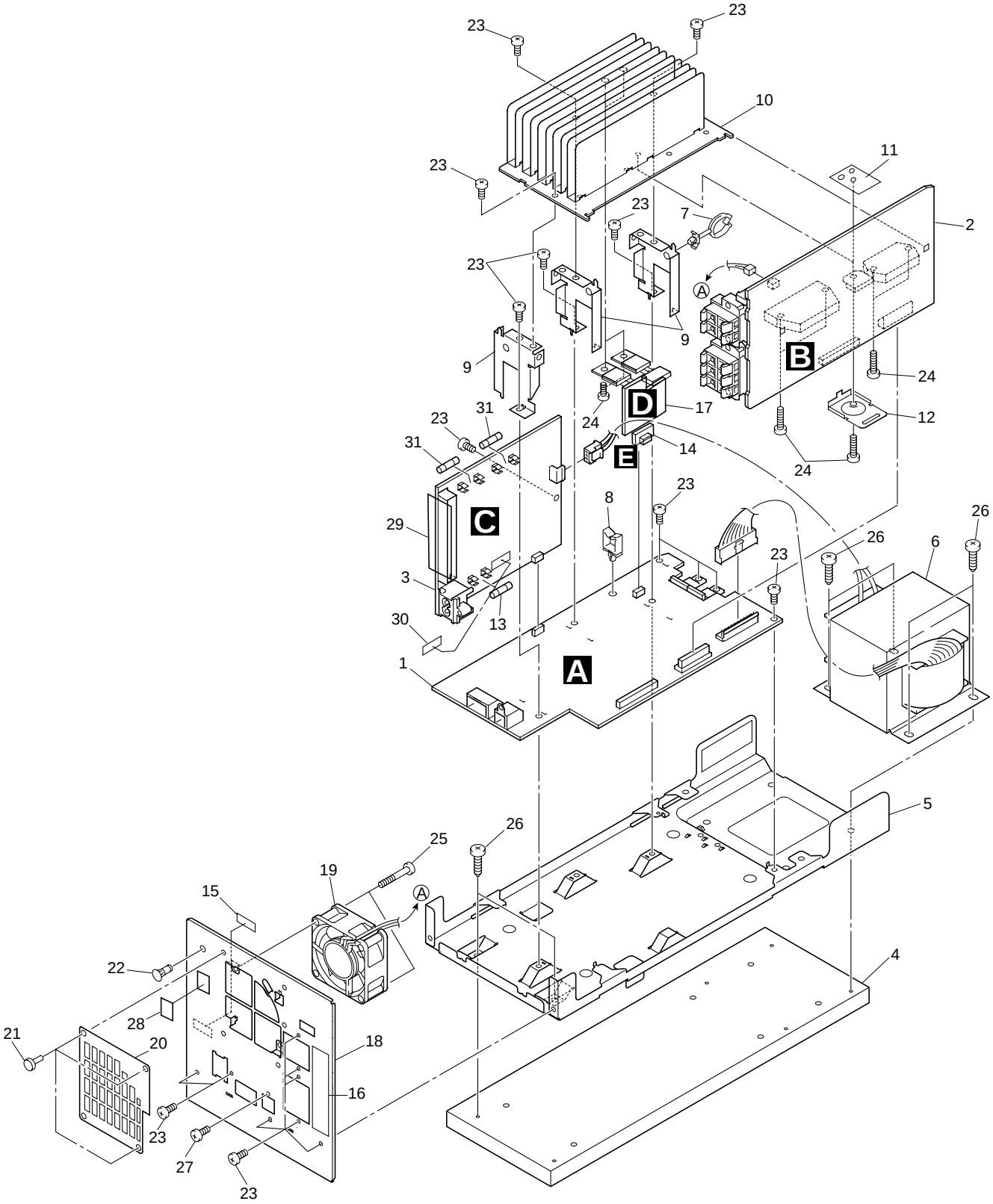
● CS ASSY (Center)

Mark	No.	Description	Part No.
		Speaker	D87DU61-53F
		Screw (for Speaker)	BPZ40P080FZK
		Screw (for Grill and Cabinet)	BPZ40P140FZK
		Speaker Wire	SDD1303
		Packing	SEC1533
		Damper	SEP1238
		Input Terminal	KKX1015
		Grill	SMG1729
NSP		├ Badge23	SAM1487
NSP		├ Grill Cloth	SAS1499
NSP		└ Grill Frame	SMH1033
NSP		Acoustic Absorbent	SMV2090
NSP		Cabinet	SNK2540
		Packing	SNK2541

● CS ASSY (Front/Rear)

Mark	No.	Description	Part No.
		Speaker	D87DU61-53F
		Screw	BPZ40P140FZK
		(for Speaker, Grill and Cabinet)	
		Fin-Lok M5 (for stand)	SBN1049
		Speaker Wire	SDD1303
		Packing	SEC1533
		Damper	SEP1238
		Input Terminal	KKX1015
		Grill	SMG1728
NSP		├ Badge23	SAM1487
NSP		├ Grill Cloth	SAS1498
NSP		└ Grill Frame	SMH1032
NSP		Acoustic Absorbent	SMV1940
NSP		Acoustic Absorbent	SMV2090
NSP		Cabinet	SNK2539
		Packing	SNK2541

2.4 AMPLIFIER ASSY



(1) AMPLIFIER ASSY PARTS LIST

Mark	No.	Description	Part No.
	1	AF ASS'Y	See Contrast table(2)
	2	AMP ASS'Y	AWU7827
	3	PRI ASS'Y	See Contrast table(2)
	4	Wood Base	AMM7006
NSP	5	Chassis	ANA7109
⚠	6	Power Transformer	See Contrast table(2)
NSP	7	Harness Lifter	AEC7296
	8	Wire Saddle	AEC7297
	9	Heat Sink Holder	ANG7317
NSP	10	Heat Sink	ANH7130
	11	Mica Seat	AEE7034
	12	IC Holder	ANG7318
⚠	13	Fuse FU1	See Contrast table(2)
	14	TRADE ASS'Y	AWU7828
NSP	15	Seriall Label	RRW-168
NSP	16	SP Label	AAX7872
	17	REG ASS'Y	AWU7826
	18	Rear Panel	See Contrast table(2)
	19	DC Fan Motor	AXM7014
	20	Fan Cover	AEC7280
	21	Nylon Rivet	AEC7318
NSP	22	PCB Holder	AEC7057
	23	Screw	BBZ30P080FMC
	24	Screw	BBZ30P140FMC
	25	Screw	BBZ30P300FZK
	26	Screw	BYC40P140FMC
	27	Screw	PSC30P080FNI
NSP	28	SISIR Label	See Contrast table(2)
	29	SW Barrier	See Contrast table(2)
	30	Fuse Card	See Contrast table(2)
	31	Fuse FU2, FU3	See Contrast table(2)

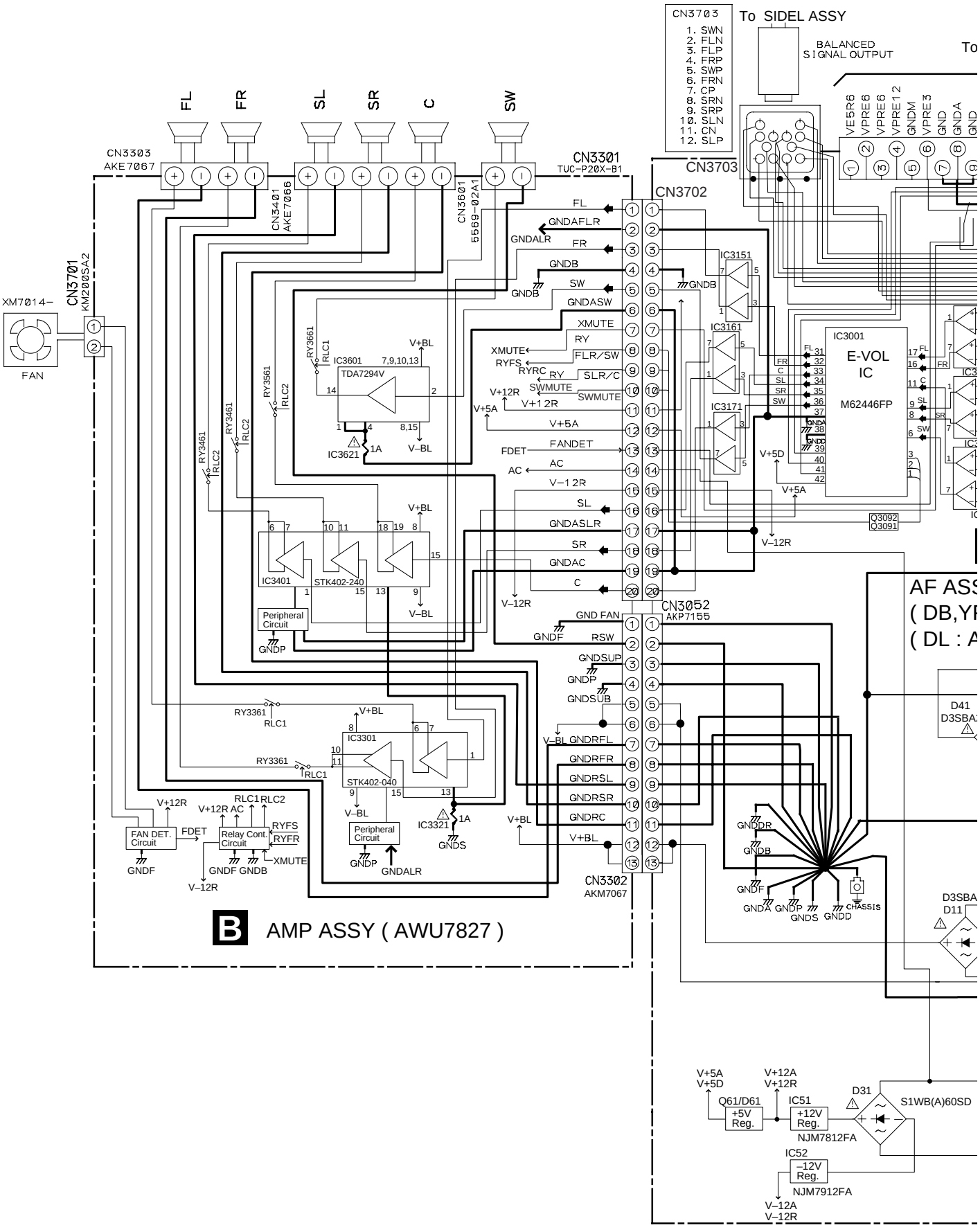
(2) CONTRAST TABLE

S-DV77/DBXJI, DLXJI/NC and YPWXJI are constructed the same except for the following:

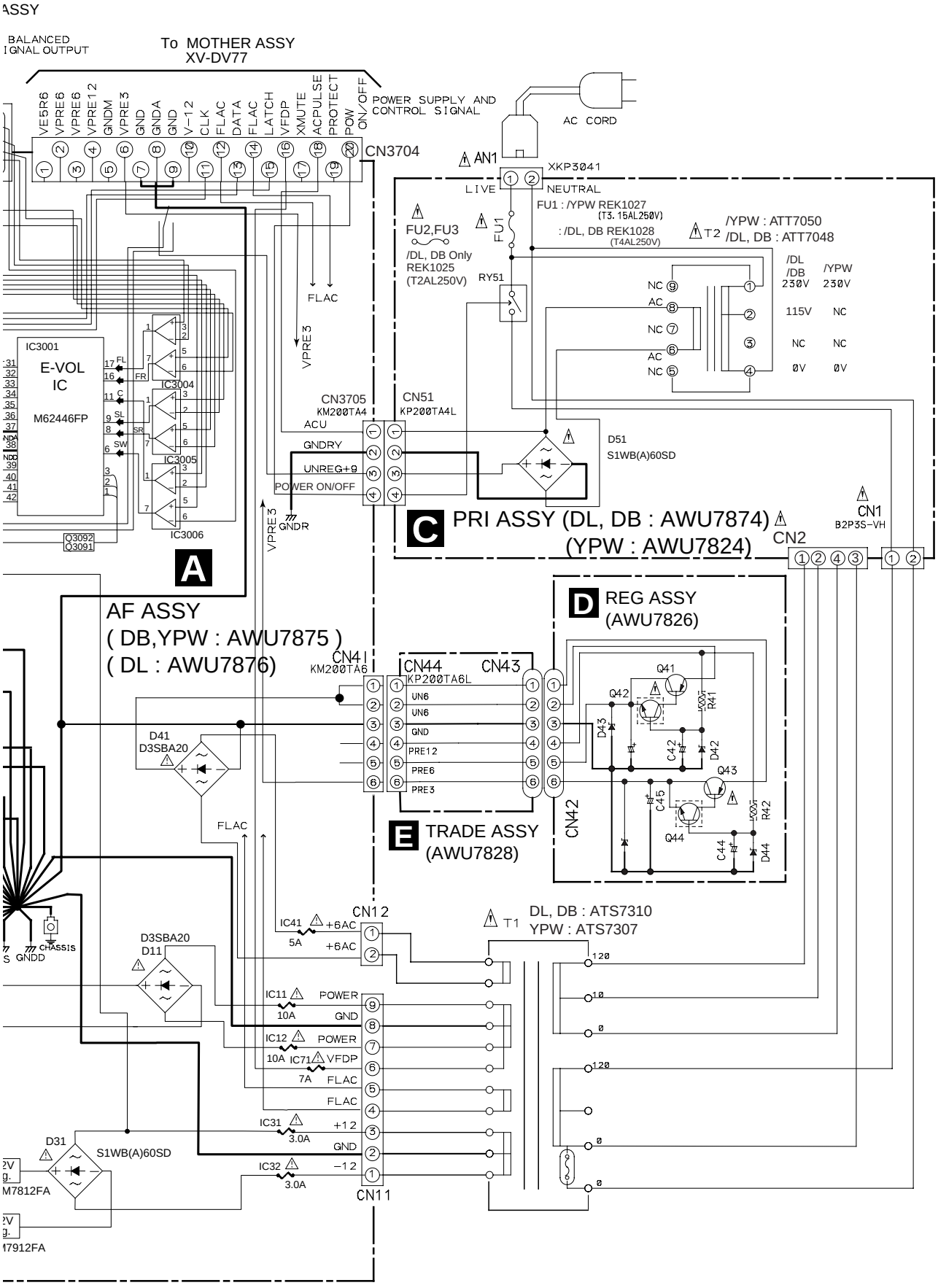
Mark	No.	Symbol and Description	Part No.			Remarks
			/DBXJI	/DLXJI/NC	/YPWXJI	
	1	AF ASS'Y	AWU7875	AWU7876	AWU7975	
	3	PRI ASS'Y	AWU7874	AWU7874	AWU7824	
⚠	6	Power Transformer	ATS7310	ATS7310	ATS7307	
⚠	13	Fuse FU1	REK1028 (T4.0A)	REK1028 (T4.0A)	REK1027 (T3.15A)	
	18	Rear Panel	ANC8023	ANC8058	ANC8059	
NSP	28	SISIR Label	Not used	AAX7893	Not used	
	29	SW Barrier	SEC7291	SEC7291	Not used	
NSP	30	Fuse Card	AAX7099	AAX7099	Not used	
⚠	31	Fuse FU2, FU3	REK1025 (T2.0A)	REK1025 (T2.0A)	Not used	

3. BLOCKDIAGRAM AND SCHEMATIC DIAGRAM

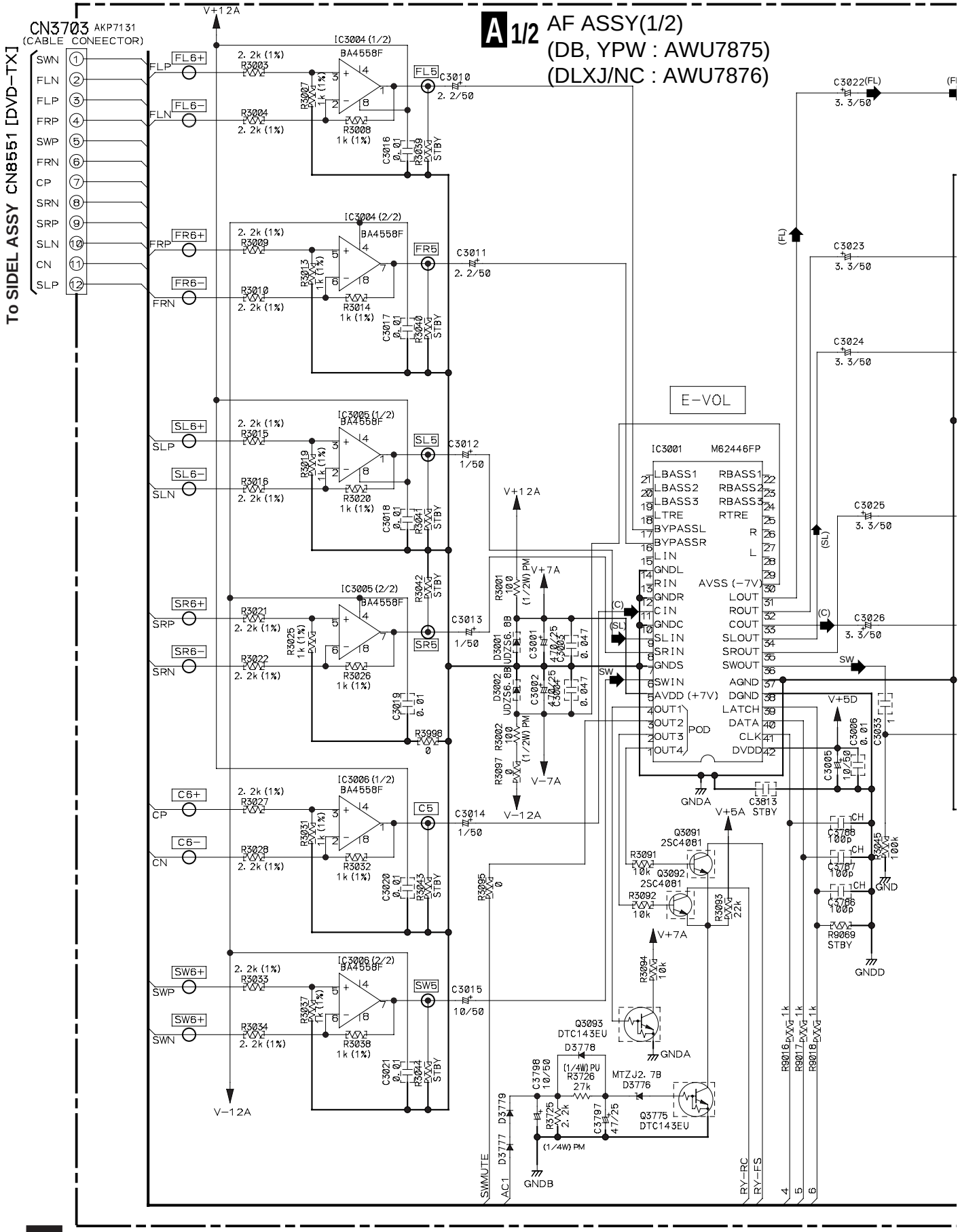
3.1 BLOCK DIAGRAM AND OVERALL CONNECTION DIAGRAM

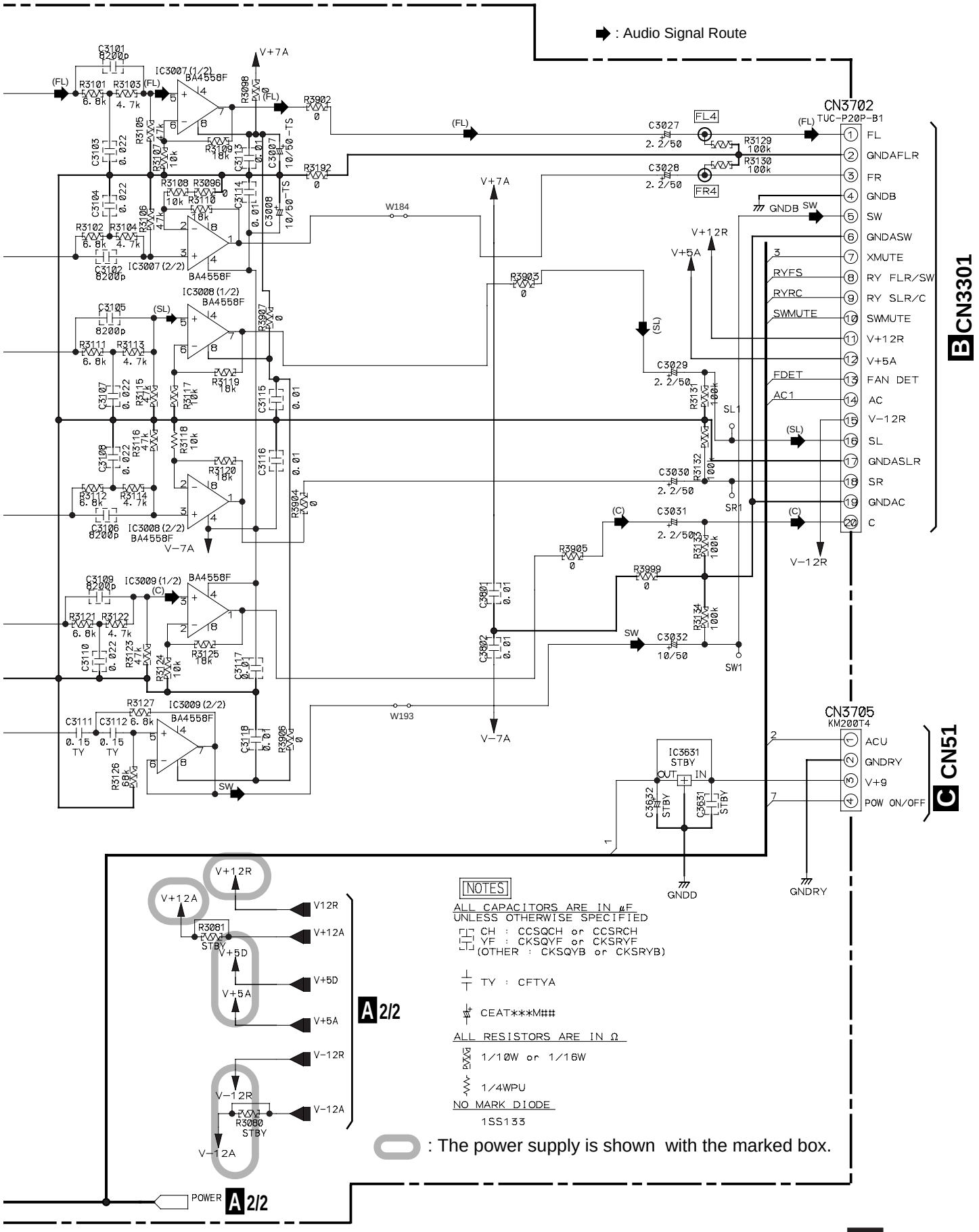


Note : When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".

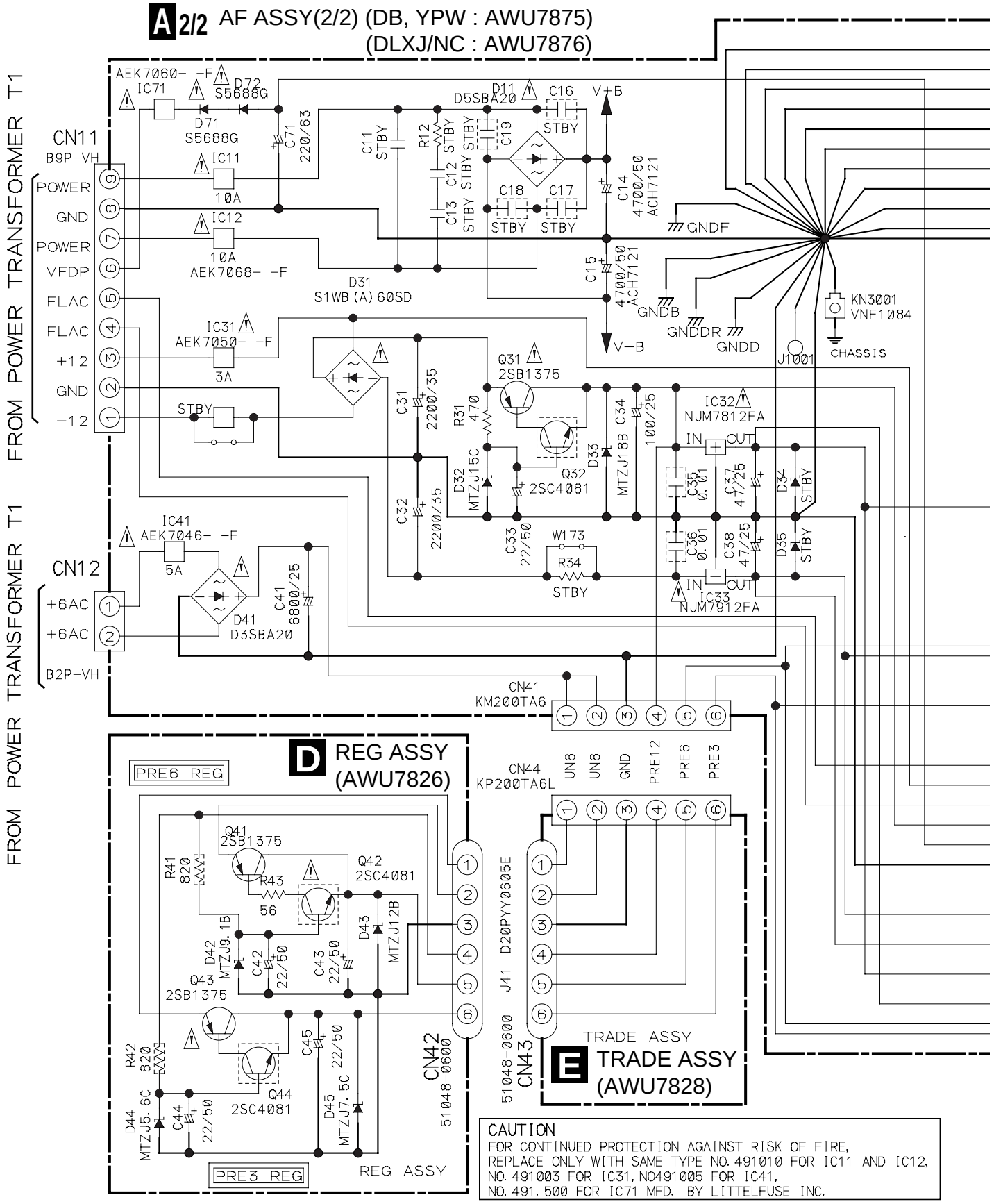


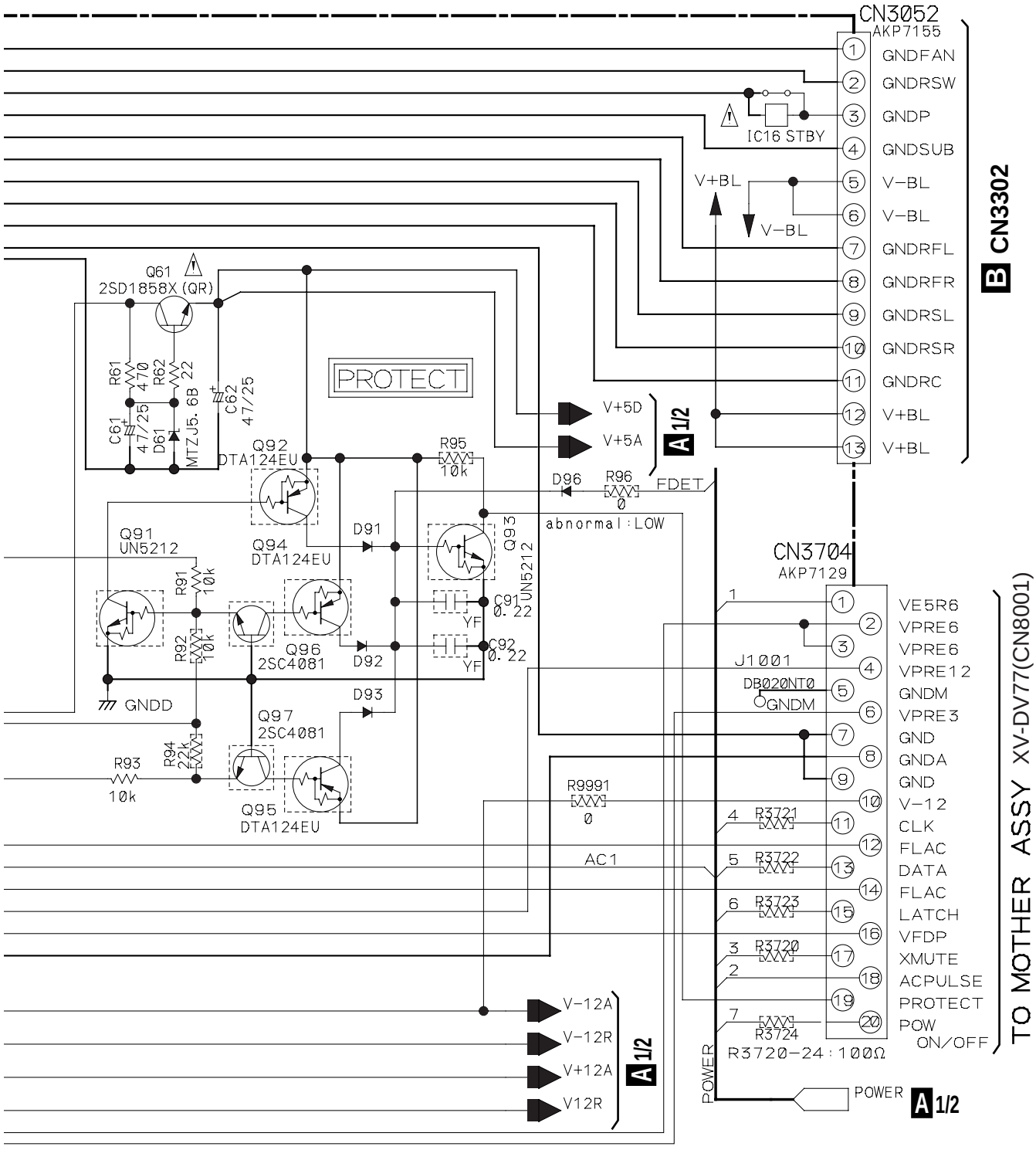
3.2 AF ASSY (1/2)


A 1/2 AF ASSY(1/2)
(DB, YPW : AWU7875)
(DLXJ/NC : AWU7876)
CN3703 AKP7131
(CABLE CONEECTOR)
To SIDEL ASSY CN8551 [DVD−TX]
SWN
FLN
FLP
FRP
SWP
FRN
CP
SRN
SRP
SLN
CN
SLP
V+12A
V−12A
V+7A
V−7A
V+5A
V+5D
IC3004 (1/2)
IC3004 (2/2)
IC3005 (1/2)
IC3005 (2/2)
IC3006 (1/2)
IC3006 (2/2)
BA4558F
IC3001 M62446FP
E−VOL
POD
LBASS1
LBASS2
LBASS3
LTRE
BYPASSL
BYPASSR
LIN
GNDL
RIN
GNDR
CIN
GNDC
SLIN
SRIN
GNDS
SWIN
AVDD (+7V)
OUT1
OUT2
OUT3
OUT4
RBASS1
RBASS2
RBASS3
RTRE
R
L
AVSS (−7V)
LOUT
ROUT
COUT
SLOUT
SROUT
SWOUT
AGND
DGND
LATCH
DATA
CLK
DVDD
FL6+
FL6−
FR6+
FR6−
SL6+
SL6−
SR6+
SR6−
C6+
C6−
SW6+
SW6−
FL5
FR5
SL5
SR5
C5
SW5
C3010
C3011
C3012
C3013
C3014
C3015
C3022(FL)
C3023
C3024
C3025
C3026
Q3091 2SC4081
Q3092 2SC4081
Q3093 DTC143EU
Q3775 DTC143EU
D3778 MTZJ2. 7B
D3776
D3777
D3779
GNDA
GNDB
GNDD
SWMUTE
RY−RC
RY−FS
STBY
SW
(FL)
(SL)
(C)


: Audio Signal Route
CN3702
TUC-P20P-B1
FL
GNDAFLR
FR
GNDB
SW
GNDASW
XMUTE
RY FLR/SW
RY SLR/C
SWMUTE
V+12R
V+5A
FAN DET
AC
V-12R
SL
GNDASLR
SR
GNDAC
C
B CN3301
CN3705
KM200T4
ACU
GNDRY
V+9
POW ON/OFF
C CN51
IC3007 (1/2) BA4558F
IC3007 (2/2) BA4558F
IC3008 (1/2) BA4558F
IC3008 (2/2) BA4558F
IC3009 (1/2) BA4558F
IC3009 (2/2) BA4558F
IC3631 STBY
W184
W193
V+7A
V-7A
V+12R
V-12R
GNDD
GNDRY
V+12A
V12R
V+5D
V+5A
V-12A
R3081 STBY
R3080 STBY
A 2/2
POWER A 2/2
NOTES
ALL CAPACITORS ARE IN μF
UNLESS OTHERWISE SPECIFIED
CH : CCSQCH or CCSRCH
YF : CKSQYF or CKSRYF
(OTHER : CKSQYB or CKSRYB)
TY : CFTYA
CEAT***M###
ALL RESISTORS ARE IN Ω
1/10W or 1/16W
1/4WPU
NO MARK DIODE
1SS133
: The power supply is shown with the marked box.

3.3 AF ASSY (2/2), REG ASSY and TRADE ASSY





NOTES

ALL CAPACITORS ARE IN μF
UNLESS OTHERWISE SPECIFIED
CH : CCSQCH or CCSRCH
YF : CKSQYF or CKSRYF
(OTHER : CKSQYB or CKSRYB)

CEAT***M##

ALL RESISTORS ARE IN Ω

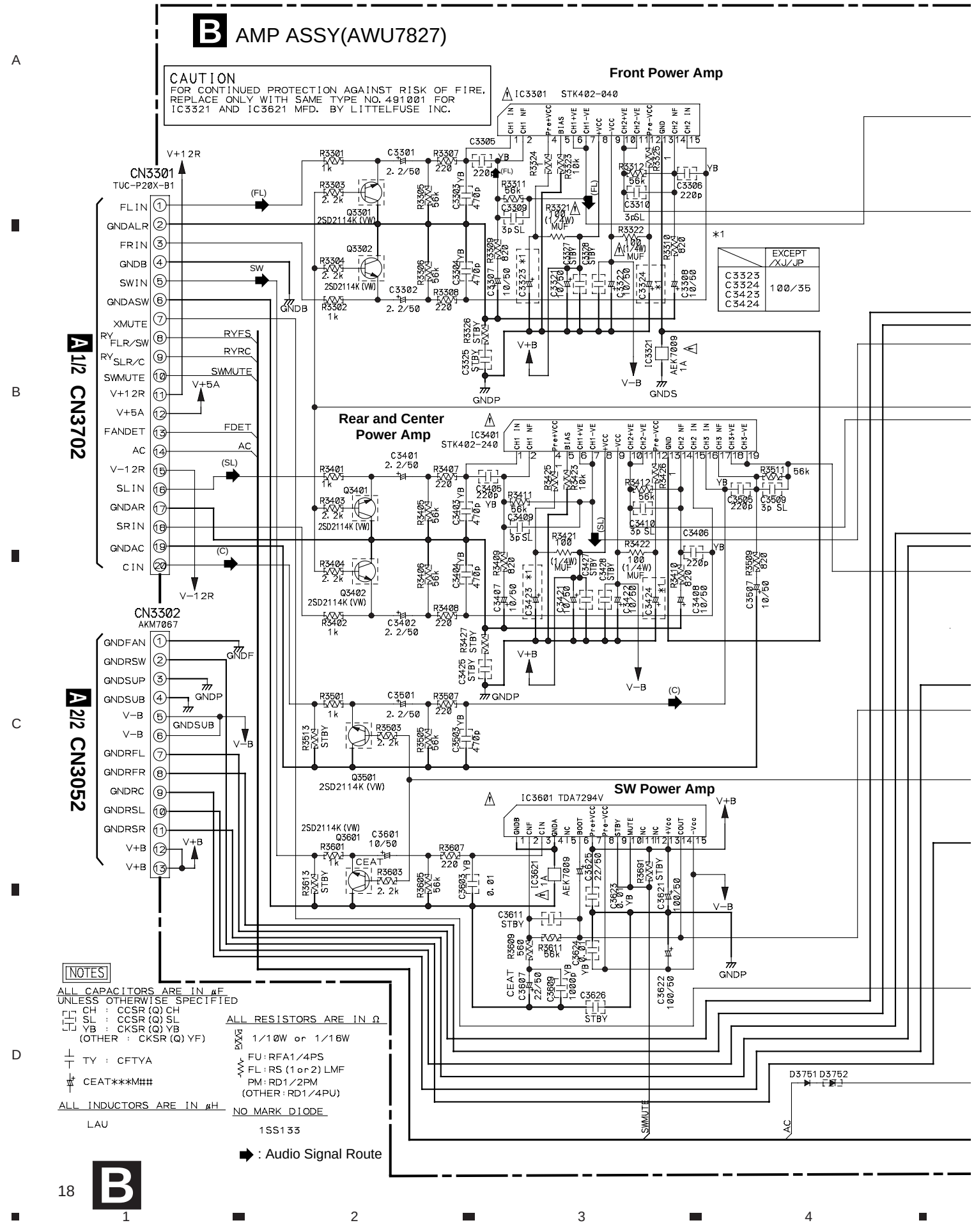
1/10W or 1/16W

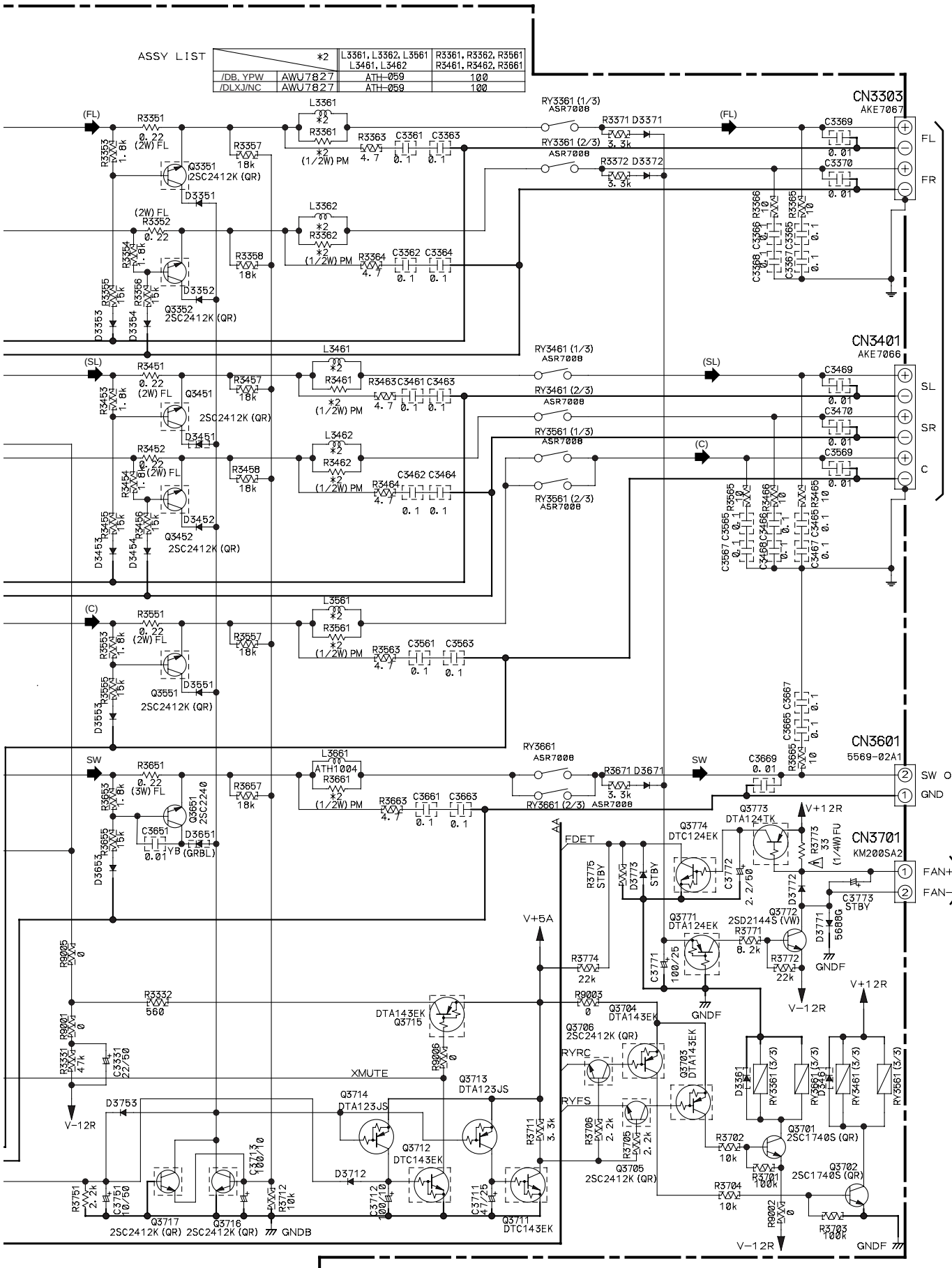
1/4WPU

NO MARK DIODE

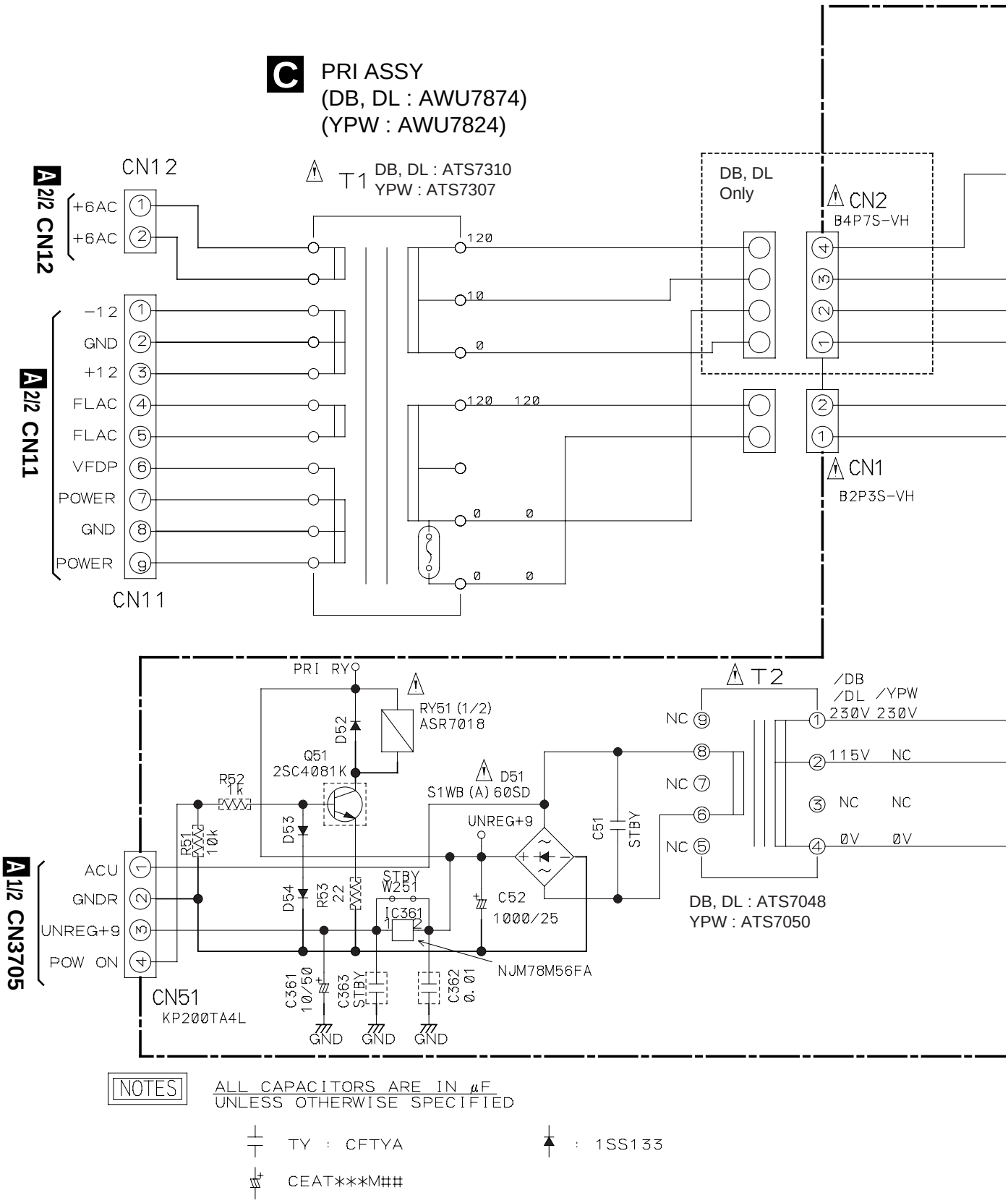
1SS133

3.4 AMP ASSY


B AMP ASSY(AWU7827)
CAUTION
FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ONLY WITH SAME TYPE NO. 491001 FOR IC3321 AND IC3621 MFD. BY LITTELFUSE INC.
Front Power Amp
IC3301 STK402-040
Rear and Center Power Amp
IC3401 STK402-240
SW Power Amp
IC3601 TDA7294V
CN3301
TUC-P20X-B1
CN3302
AKM7067
A 1/2 CN3702
A 2/2 CN3052
EXCEPT /XJ/JP
C3323 C3324 C3423 C3424 100/35
NOTES
ALL CAPACITORS ARE IN μF UNLESS OTHERWISE SPECIFIED
CH : CCSR(Q)CH
SL : CCSR(Q)SL
YB : CKSR(Q)YB
(OTHER : CKSR(Q)YF)
TY : CFTYA
CEAT***M###
ALL INDUCTORS ARE IN μH
LAU
ALL RESISTORS ARE IN Ω
1/10W or 1/16W
FU : RFA1/4PS
FL : RS(1 or 2)LMF
PM : RD1/2PM
(OTHER : RD1/4PU)
NO MARK DIODE
1SS133
: Audio Signal Route


ASSY LIST
*2
L3361, L3362, L3561
L3461, L3462
R3361, R3362, R3561
R3461, R3462, R3661
/DB, YPW
AWU7827
ATH-059
100
/DLXJ/NC
AWU7827
ATH-059
100
CN3303
AKE7067
FL
FR
To Satellite Speaker
CN3401
AKE7066
SL
SR
C
CN3601
5569-02A1
SW OUT
GND
To Subwoofer
CN3701
KM200SA2
FAN+
FAN-
To FAN
RY3361 (1/3) ASR7008
RY3361 (2/3) ASR7008
RY3461 (1/3) ASR7008
RY3461 (2/3) ASR7008
RY3561 (1/3) ASR7008
RY3561 (2/3) ASR7008
RY3661 ASR7008
Q3351 2SC2412K (QR)
Q3352 2SC2412K (QR)
Q3451 2SC2412K (QR)
Q3452 2SC2412K (QR)
Q3551 2SC2412K (QR)
Q3651 2SC2240
Q3705 2SC2412K (QR)
Q3706 2SC2412K (QR)
Q3716 2SC2412K (QR)
Q3717 2SC2412K (QR)
Q3701 2SC1740S (QR)
Q3702 2SC1740S (QR)
Q3772 2SD2144S (VW)
Q3712 DTC143EK
Q3711 DTC143EK
Q3774 DTC124EK
Q3771 DTA124EK
Q3773 DTA124TK
Q3715 DTA143EK
Q3704 DTA143EK
Q3703 DTA143EK
Q3713 DTA123JS
Q3714 DTA123JS
D3351
D3352
D3451
D3452
D3551
D3651
D3753
D3712
D3771
D3772
D3361
D3461
D3561
FDET
RYRC
RYFS
XMUTE
STBY
YB (GRBL)
V+12R
V-12R
V+5A
GNDF
GNDB
(FL)
(SL)
(C)
SW
AA

3.5 PRI ASSY



NOTES

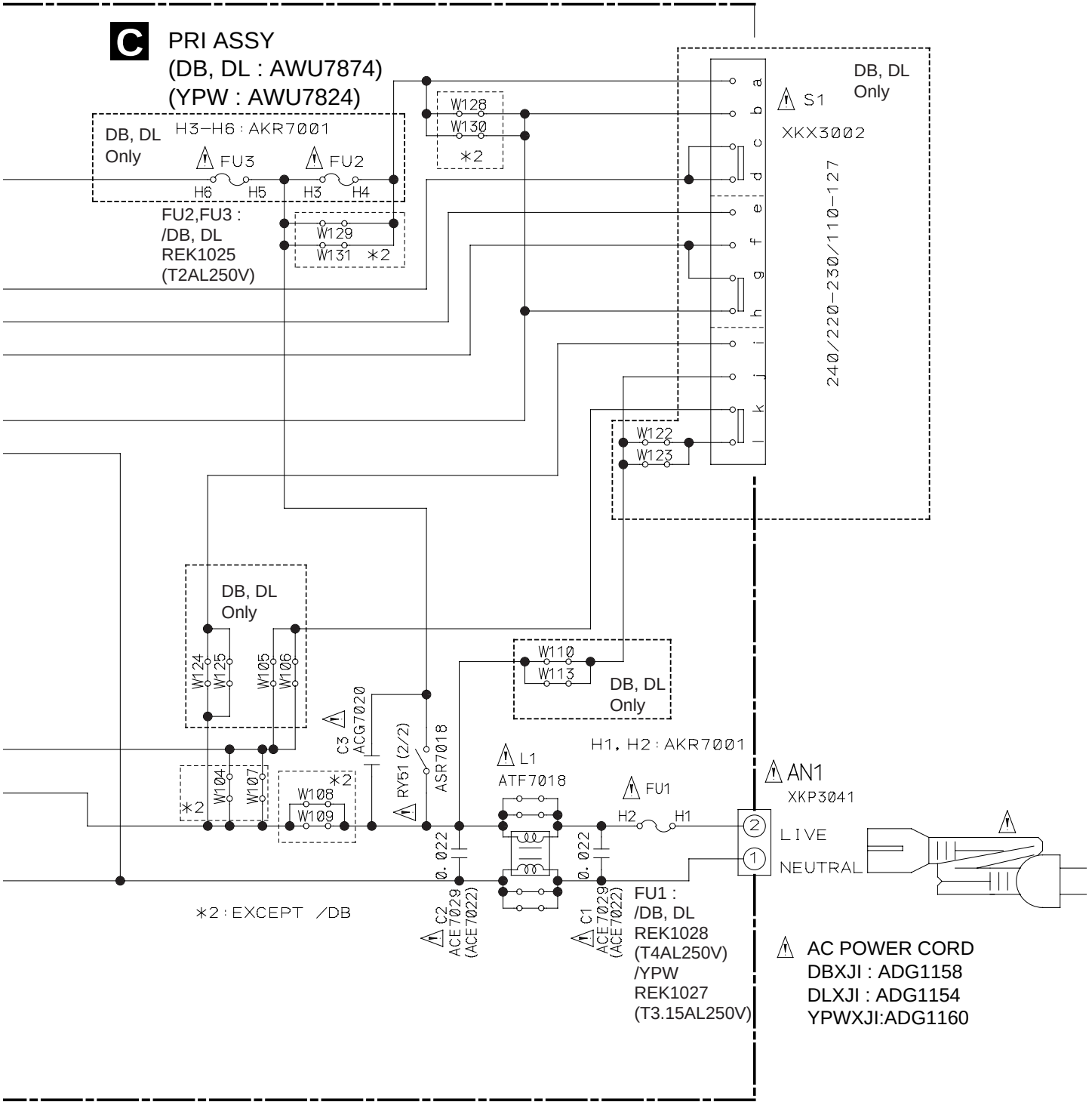
ALL CAPACITORS ARE IN μF
UNLESS OTHERWISE SPECIFIED

TY : CFTYA

CEAT***M##

: 1SS133

CAUTION - FOR CONTINUED PROTECTION AGAINST RISK OF FIRE.
REPLACE WITH SAME TYPE AND RATINGS ONLY.



3. PCB CONNECTION DIAGRAM

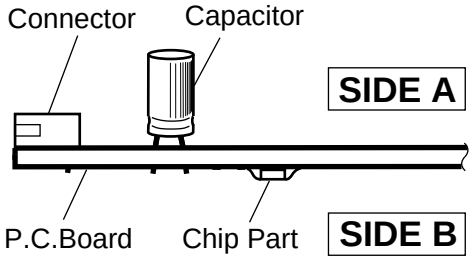
3.1 AF ASSY

NOTE FOR PCB DIAGRAMS :

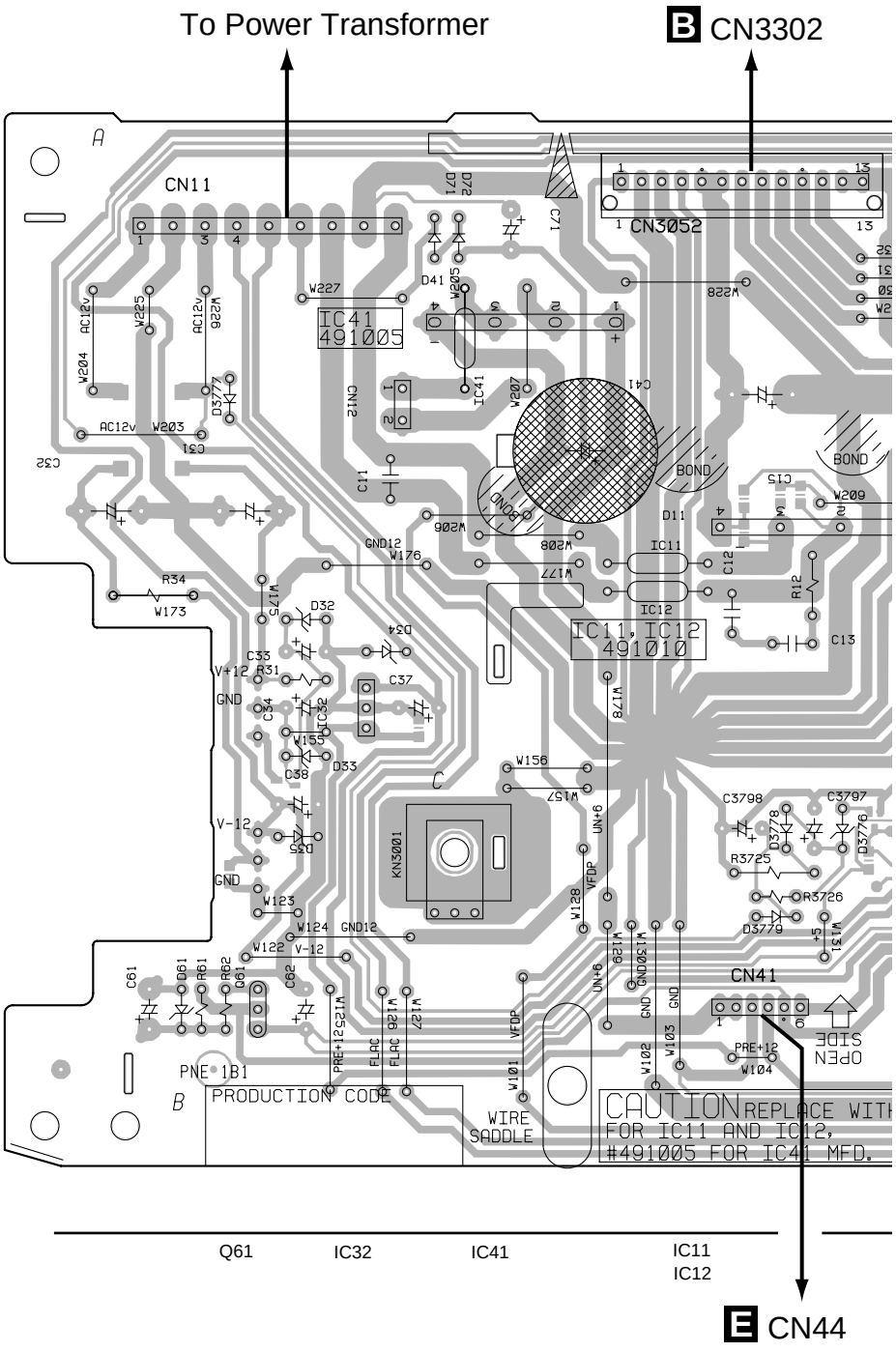
1. Part numbers in PCB diagrams match those in the schematic diagrams.
2. A comparison between the main parts of PCB and schematic diagrams is shown below.

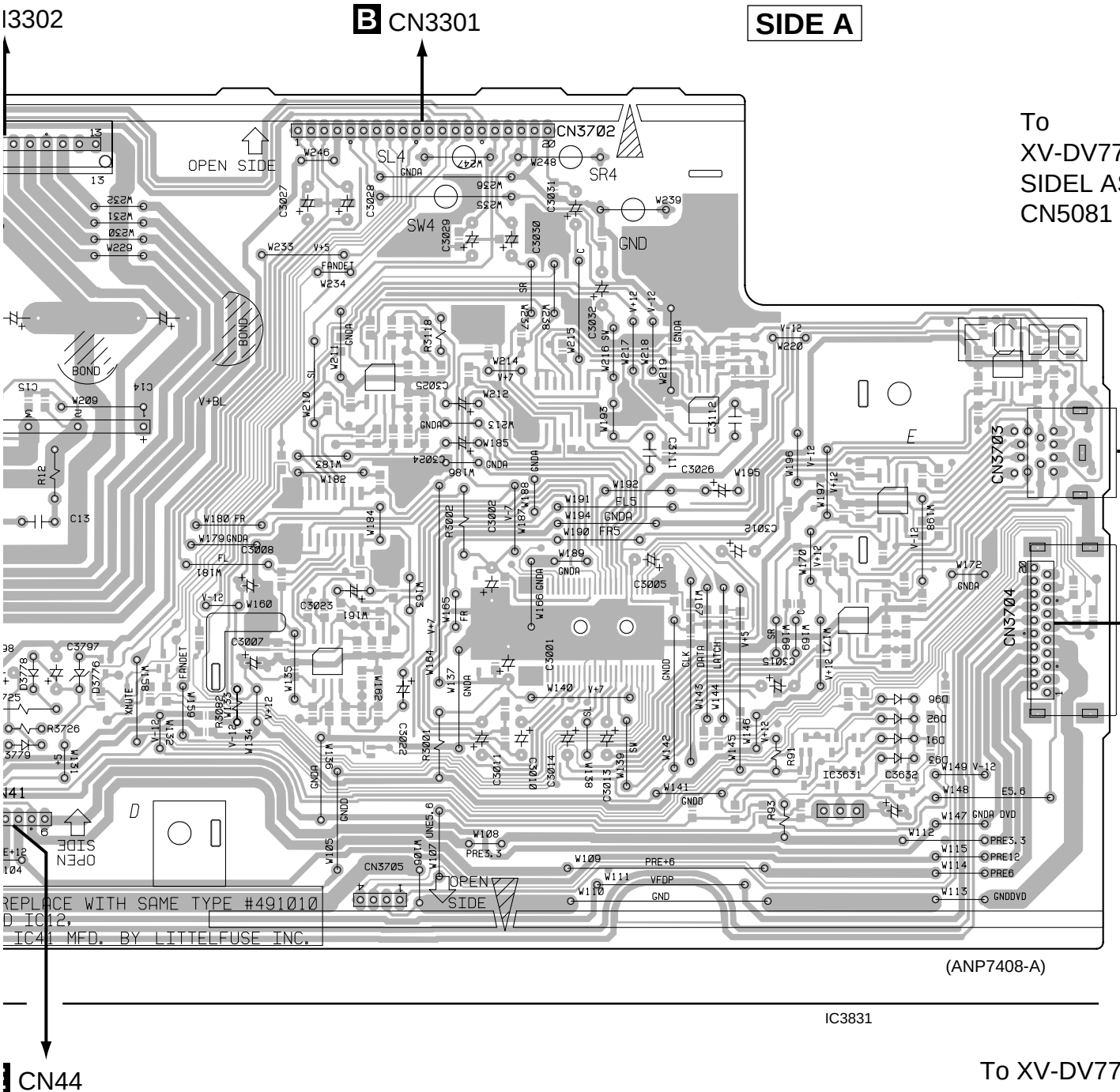
Symbol In PCB Diagrams	Symbol In Schematic Diagrams	Part Name
B C E	B C E B C E	Transistor
B C E	B C E B C E	Transistor with resistor
D G S	D G S D G S	Field effect transistor
		Resistor array
		3-terminal regulator

3. The parts mounted on this PCB include all necessary parts for several destinations. For further information for respective destinations, be sure to check with the schematic diagram.
4. View point of PCB diagrams.

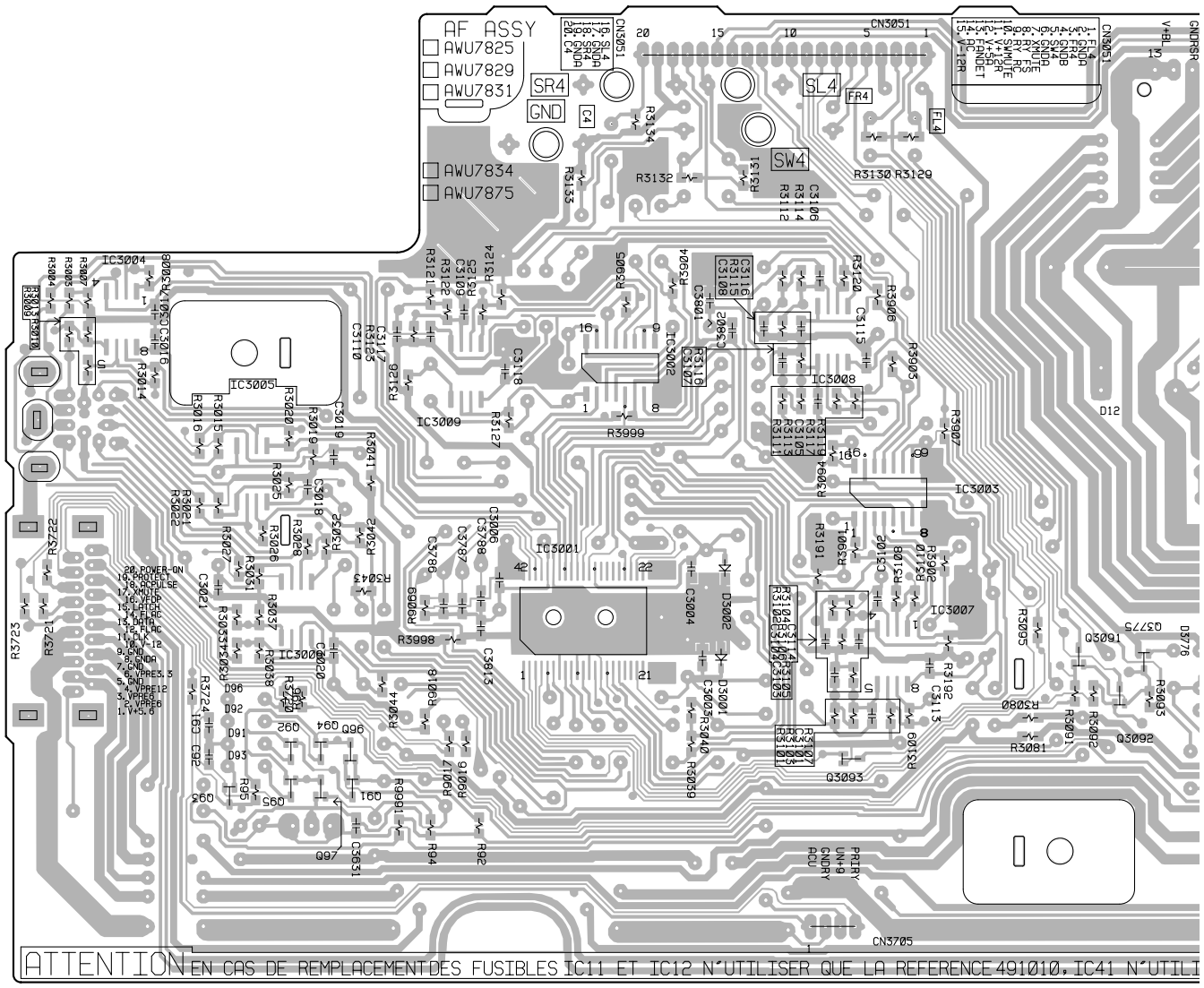


A AF ASSY



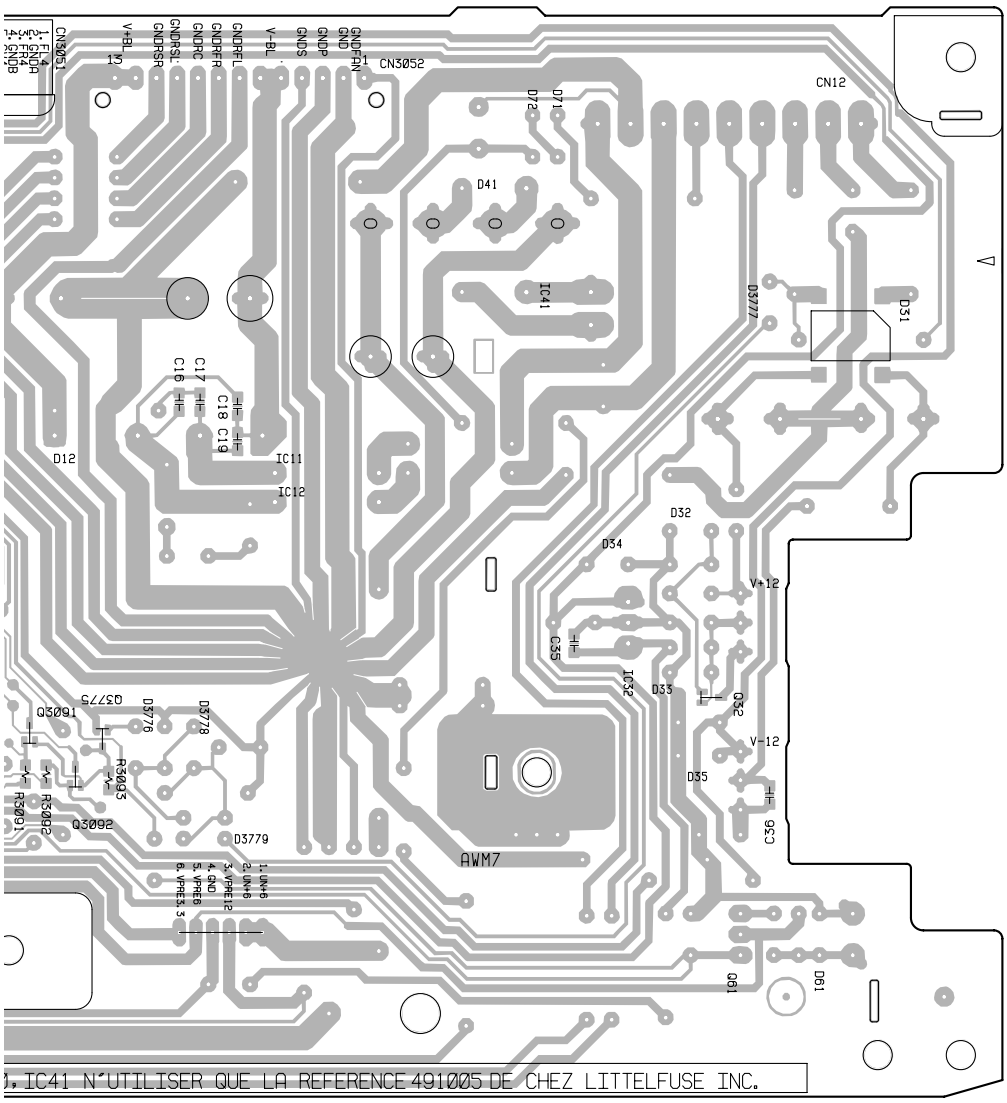

I3302
B CN3301
SIDE A
To
XV-DV77
SIDEL ASSY
CN5081
CN3702
CN3703
CN3704
CN3705
OPEN SIDE
BOND
GND
V+BL
FANDET
REPLACE WITH SAME TYPE #491010
D IC12,
IC41 MFD. BY LITTELFUSE INC.
(ANP7408-A)
IC3831
CN44
To XV-DV77
MOTHER ASSY

A AF ASSY



IC3004 Q93 IC3005 IC300 Q92 Q95 Q94 Q97 Q96 Q91 IC3009 IC3001 IC3002 IC3008 IC3093 IC3003 IC3007 IC3091 IC3092 IC3

SIDE B



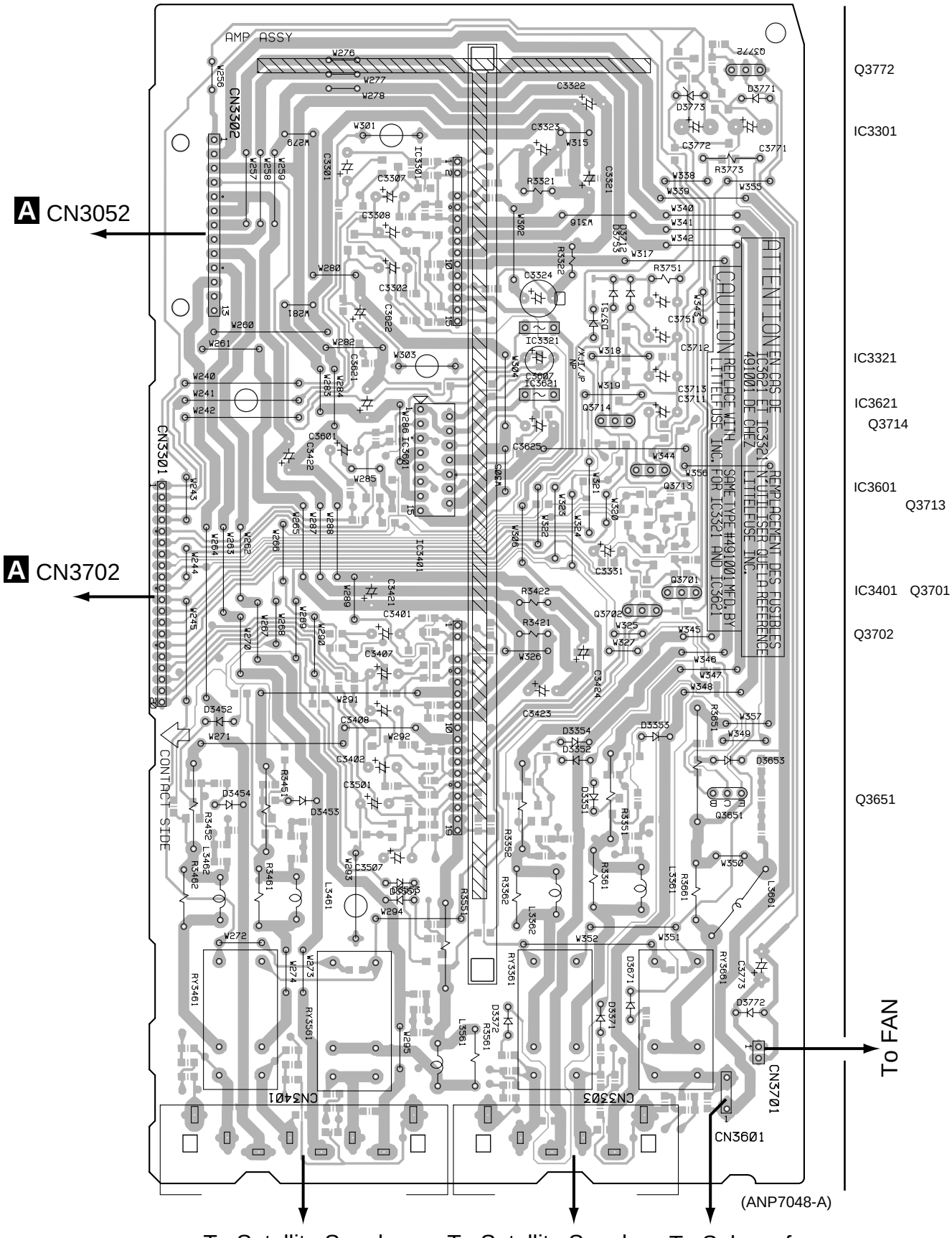
(ANP7408-A)

IC3091 IC3775 IC12 IC41 IC32 Q32
IC3092 Q61

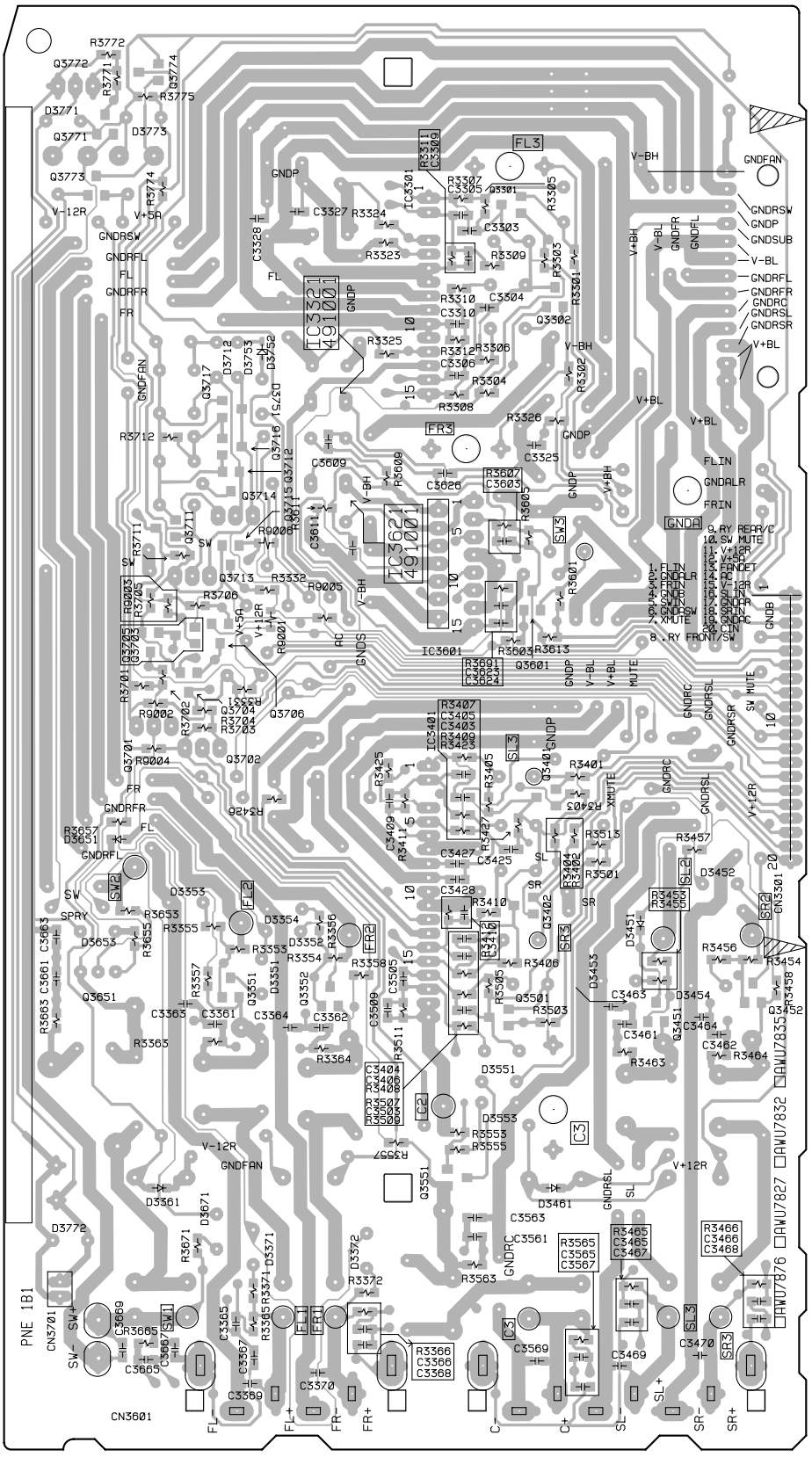
3.2 AMP ASSY

B AMP ASSY

SIDE A



SIDE B



(ANP7048-A)

Q3772 Q3774

Q3771

Q3301

IC3301

Q3302

Q3717

Q3716

Q3712

Q3714

Q3711

Q3713

IC3601

Q3705 Q3703 Q3701

Q3704 Q3706 IC3401

Q3701 Q3702 Q3041

Q3042

Q3651 Q3351 Q3501 Q3352

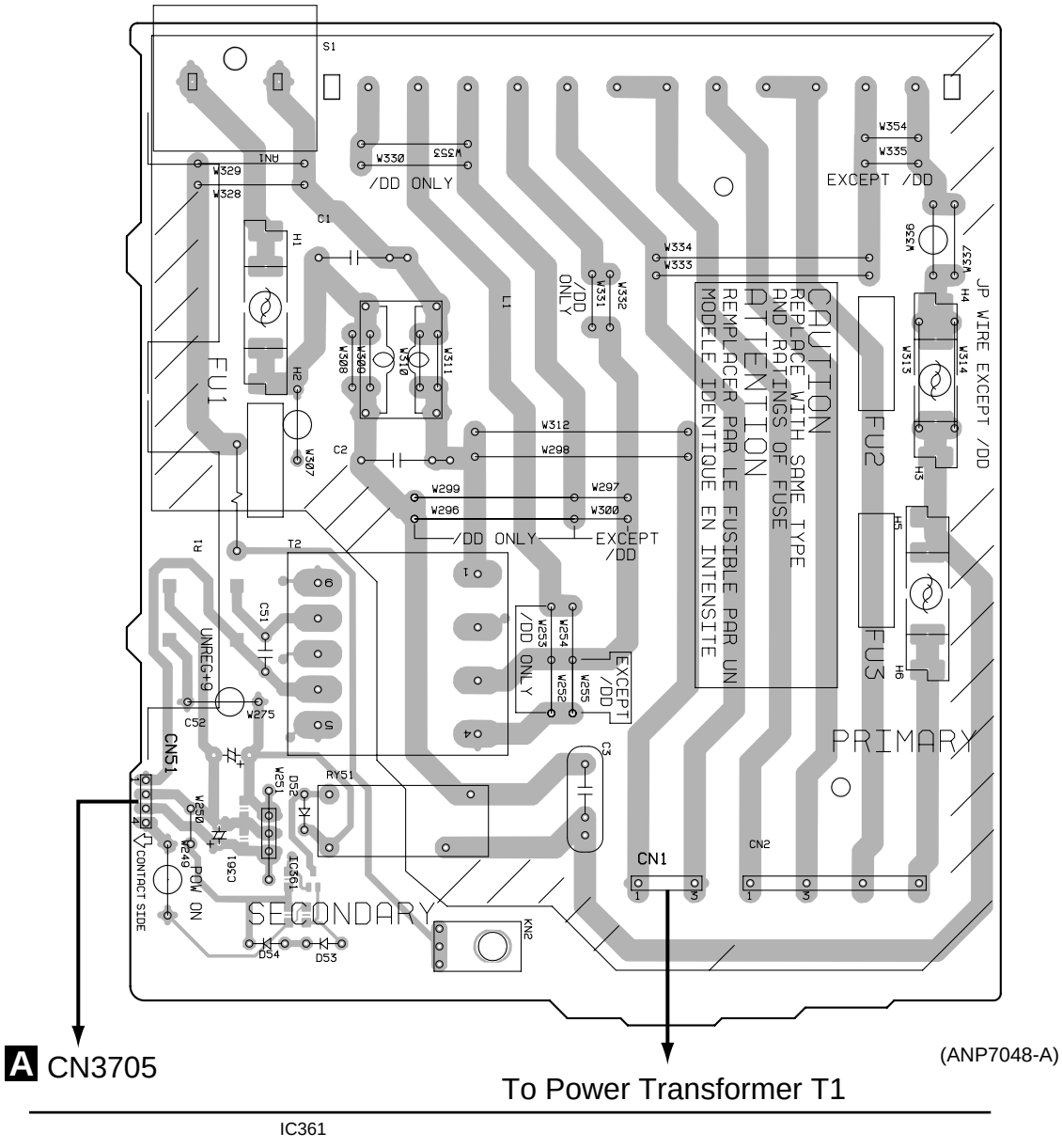
Q3451

Q3551

3.3 PRI ASSY

C PRI ASSY

SIDE A



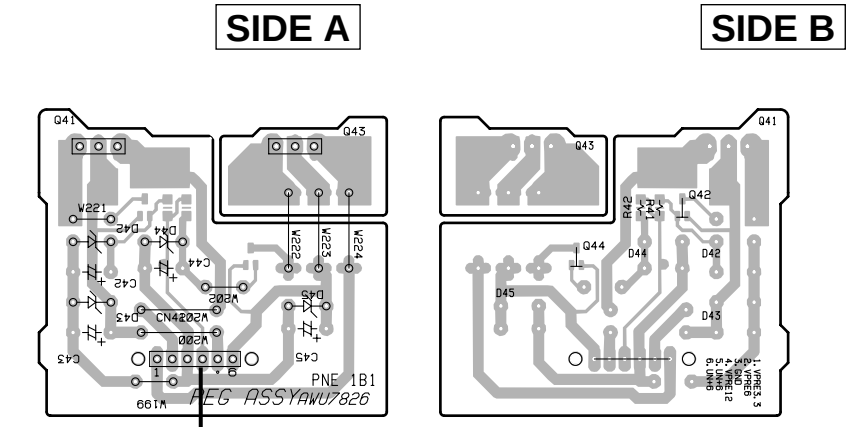
A CN3705

(ANP7048-A)

To Power Transformer T1

IC361

D REG ASSY



(ANP7048-A)

Q41 Q43 Q43 Q44 Q42 Q41

E TRADE ASSY

(ANP7048-A)

A CN41

5. PCB PARTS LIST

NOTES: ●*Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
●*The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
●*When ordering resistors, first convert resistance values into code form as shown in the following examples.*
Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).
560 Ω → 56 × 10¹ → 561 ..... RD1/4PU 5 6 1 J
47k Ω → 47 × 10³ → 473 ..... RD1/4PU 4 7 3 J
0.5 Ω → R50 ..... RN2H R 5 0 K
1 Ω → 1R0 ..... RS1P 1 R 0 K
Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).
5.62k Ω → 562 × 10¹ → 5621 ..... RN1/4PC 5 6 2 1 F

■ LIST OF WHOLE PCB ASSEMBLIES

Mark	Symbol and Description	Part No.			Remarks
		DBXJI	DLXJI/NC	YPWXJI	
NSP	DVD AMP	AWM7643	AWM7658	AWM7644	
	├AF ASSY	AWU7875	AWU7876	AWU7875	
	├AMP ASSY	AWU7827	AWU7827	AWU7827	
	├REG ASSY	AWU7826	AWU7826	AWU7826	
	├PRI ASSY	AWU7874	AWU7874	AWU7824	
	└TRADE ASSY	AWU7828	AWU7828	AWU7828	

C PRI ASSY

AWU7874 and AWU7824 are constructed the same except for the following:

Mark	Symbol and Description	Part No.		Remarks
		AWU7874	AWU7824	
⚠	T2 SUB TRANSFORMER	ATT7048	ATT7050	
	H3-H6 FUSE CLIP	AKR7001	Not used	
⚠	CN 2 4P- VH-S CONNECTOR	B4P7S-VH	Not used	
⚠	S1 VOLTAGE SELECTOR	XKX3002	Not used	

A AF ASSY

Although AWU7875 and AWU7876 are different in part number, they consist of the same components.

Mark	No.	Description	Part No.
A	**AF ASSY**		
	SEMICONDUCTORS		
⚠	IC41	(5A)	AEK7046
⚠	IC31	(3A)	AEK7050
⚠	IC71	(500mA)	AEK7060
⚠	IC11, IC12	(10A)	AEK7068
	IC3004-IC3009		BA4558F-HT
	IC3002, IC3003		BU4053BCF
	IC3001		M62446FP
⚠	IC32		NJM7812FA
⚠	IC33		NJM7912FA
⚠	Q31		2SB1375
	Q3091, Q3092, Q32, Q96, Q97		2SC4081
⚠	Q61		2SD1858X
	Q92, Q94, Q95		DTA124EUA
	Q3093, Q3775		DTC143EUA
	Q91, Q93		UN5212
	D3777-D3779		1SS133
⚠	D91, D92		1SS133
	D93, D96		1SS133
⚠	D41		D3SBA20(B)
⚠	D11		D5SBA20(B)
	D32		MTZJ15C
	D33		MTZJ18B
	D3776		MTZJ2.7B

Mark	No.	Description	Part No.
	D61		MTZJ5.6B
⚠	D31		S1WB(A)60SD
⚠	D71, D72		S5688G
	D3001, D3002		UDZS6.8B

CAPACITORS

	C14, C15	ACH7121
	C3786-C3788	CCSRCH101J50
	C3005,C3007,C3008,C3015,C3032	CEAT100M50
	C3798	CEAT100M50
	C34	CEAT101M25
	C3012-C3014	CEAT1R0M50
	C33	CEAT220M50
	C71	CEAT221M63
	C31, C32	CEAT222M35
	C3010, C3011, C3027-C3031	CEAT2R2M50
	C3022-C3026	CEAT3R3M50
	C37, C3797, C38, C61, C62	CEAT470M25
	C3001, C3002	CEAT471M25
	C41	CEAT682M25
	C3111, C3112	CFTYA154J50
	C3003, C3004	CKSQYF473Z50
	C3033	CKSRYB105K6R3
	C3103, C3104, C3107, C3108, C3110	CKSRYB223K50
	C3101, C3102, C3105, C3106, C3109	CKSRYB822K50
	C3006, C3016-C3021, C3113-C3118	CKSRYF103Z50
	C35, C36, C3801, C3802	CKSRYF103Z50
	C91, C92	CKSRYF224Z16

RESISTORS

	R3001, R3002	RD1/2PM151J
	R3725	RD1/2PM222J
	R3118, R91, R93	RD1/4PU103J
	R62	RD1/4PU220J
	R3726	RD1/4PU273J
	R31, R61	RD1/4PU471J
	R3007, R3008, R3013, R3014	RS1/16S1001F
	R3019, R3020, R3025, R3026	RS1/16S1001F
	R3031, R3032, R3037, R3038	RS1/16S1001F
	R3003, R3004, R3009, R3010	RS1/16S2201F
	R3015, R3016, R3021, R3022	RS1/16S2201F
	R3027, R3028, R3033, R3034	RS1/16S2201F
	Other Resistors	RS1/16S□□□J

OTHERS

	CN3704	20P SOCKET	AKP7129
	CN3703	12P CONNECTOR	AKP7131
	CN3052	13P CONNECTOR SOCK.	AKP7155
	CN12	2P-VH CONNECTOR	B2P-VH
	CN11	9P TOP POST	B9P-VH
	J 1001	BOARD IN WIRW	DB020NT0
	CN3705	4P PLUG	KM200TA4
	CN41	6P PLUG	KM200TA6
	CN3702	PCB CONNECTOR	TUC-P20P-B1
	KN3001	EARTH METAL FITTING	VNF1084

B AMP ASSY

SEMICONDUCTORS

⚠	IC3321, IC3621	AEK7009
⚠	IC3301	STK402-040
⚠	IC3401	STK402-240
⚠	IC3601	TDA7294V
	Q3701, Q3702	2SC1740S
	Q3651	2SC2240
	Q3351, Q3352, Q3451, Q3452, Q3551	2SC2412K
	Q3705, Q3706, Q3716, Q3717	2SC2412K
	Q3301, Q3302, Q3401, Q3402, Q3501	2SD2114K
	Q3601	2SD2114K
	Q3772	2SD2144S
	Q3713, Q3714	DTA123JS
	Q3771	DTA124EK
	Q3773	DTA124TK
	Q3703, Q3704, Q3715	DTA143EK
	Q3774	DTC124EK
	Q3711, Q3712	DTC143EK
	D3351-D3354, D3371, D3372	1SS133
	D3452-D3454,D3551,D3553,D3653	1SS133
	D3671,D3712,D3751,D3753,D3772	1SS133
	D3361,D3451,D3461,D3651,D3752	1SS355
	D3771	S5688G

COILS AND FILTERS

⚠	L3361,L3362,L3461,L3462,L3561	ATH-059
⚠	L3661	ATH1004

SWITCHES AND RELAYS

	RY3361,RY3461,RY3561,RY3661	ASR7008

CAPACITORS

	C3309,C3310,C3409,C3410,C3509	CCSRCJ3R0C50
	C3307, C3308, C3321, C3322	CEAT100M50
	C3407,C3408,C3421,C3422,C3507	CEAT100M50
	C3601, C3751	CEAT100M50
	C3712, C3713	CEAT101M10
	C3771	CEAT101M25
	C3323, C3324, C3423, C3424	CEAT101M35
	C3621, C3622	CEAT101M50
	C3331, C3607, C3625	CEAT220M50
	C3301,C3302,C3401,C3402,C3501	CEAT2R2M50
	C3772	CEAT2R2M50
	C3711	CEAT470M25
	C3609	CKSRYB102K50
	C3603, C3623, C3624, C3651	CKSRYB103K50
	C3305,C3306,C3405,C3406,C3505	CKSRYB221K50
	C3303,C3304,C3403,C3404,C3503	CKSRYB471K50
	C3369,C3370,C3469,C3470,C3569	CKSRYF103Z50
	C3669	CKSRYF103Z50
	C3361-C3368,C3461-C3468,C3561	CKSRYF104Z25
	C3563,C3565,C3567,C3661,C3663	CKSRYF104Z25
	C3665, C3667	CKSRYF104Z25

RESISTORS

	R3361,R3362,R3461,R3462,R3561	RD1/2PM101J
	R3661	RD1/2PM101J
⚠	R3321, R3322, R3421, R3422	RD1/4MUF101J
	R3751	RD1/4PU222J
⚠	R3773	RF1/4PS330J
	R9001, R9006	RS1/10S0R0J
	R3351, R3352, R3451, R3452, R3551	RS2LMFR22J
	R3651	RS3LMFR22J
	Other Resistors	RS1/16S□□□J

Mark	No.	Description	Part No.
OTHERS			
	CN3601	2P CONNECTOR	5569-02A1
	CN3401	6P SPEAKER TERMMINAL	AKE7066
	3303	4P SPEAKER TERMMINAL	AKE7067
	CN3302	13P CONNECTOR PLUG	AKM7067
	CN3701	2P PLUG	KM200SA2
	CN3301	PCB CONNECTOR	TUC-P20X-B1

C PRI ASSY

Mark	No.	Description	Part No.
SEMICONDUCTORS			
⚠	IC361		NJM78M56FA
	Q51		2SC4081
	D52–D54		1SS133
⚠	D51		S1WB(A)60SD
COILS AND FILTERS			
⚠	L1		ATF7018
TRANSFORMERS			
⚠	T2		ATT7048
SWITCHES AND RELAYS			
⚠	RY51		ASR7018
⚠	S1	Voltage Selector	XKX3002
CAPACITORS			
⚠	C1, C2		ACE7029
⚠	C3		ACG7020
	C361		CEAT100M50
	C52		CEAT102M25
	C362		CKSRYB103K50
RESISTORS			
	Other Resistors		RS1/16S□□□J
OTHERS			
	H1- H6	FUSE CLIP	AKR7001
⚠	CN1	2P CONNECTOR	B2P3S-VH
⚠	CN2	4P-VH-S CONNECTOR	B4P7S-VH
	CN51	4P SOCKET	KP200TA4L
⚠	AN1	1P AC INLET	XKP3041

D REG ASSY

Mark	No.	Description	Part No.
SEMICONDUCTORS			
⚠	Q41, Q43		2SB1375
	Q42, Q44		2SC4081
	D43		MTZJ12B
	D44		MTZJ5.6C
	D45		MTZJ7.5C
	D42		MTZJ9.1B
CAPACITORS			
	C42–C45		CEAT220M50
RESISTORS			
	R43		RD1/4PU560J
	Other Resistors		RS1/16S□□□J
OTHERS			
	42	6P CABLE HOLDER	51048-0600
	J 41	JUMPER WIRE 6P	D20PYY0605E

E TRADE ASSY

Mark	No.	Description	Part No.
OTHERS			
	43	6P SOCKET	51048-0600
	CN44	6P CABLE HOLDER	KP200TA6L

6. ADJUSTMENT

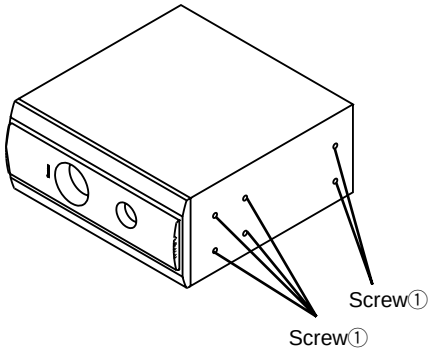
There is no information to be shown in this chapter.

7. GENERAL INFORMATION

7.1 DISASSEMBLY

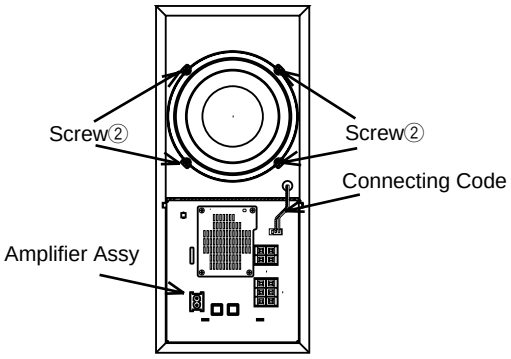
1. Removing the Amplifier Assy

1) The Amplifier Assy is attached to the cabinet by 6 external screws ①. To detach it, pull down the subwoofer toward the left side.
2) Then unfasten those screws ① .
3) Then stand up the speaker again. To detach the Amplifier Assy, first remove the connecting code. Then pull straight the Amplifier Assy toward back and remove it.



2. Removing the Subwoofer

1) The speaker element is attached to the back board by 4 external screws ②.To detach it, unfasten those screws.
2) When attaching it,face its terminal upward.



3. Removing the Cosmetic Baffle

1) The cosmetic baffie is attached to the baffle by press-fitting. To detach it, pry it open by inserting a flat blade screwdriver into lower side.

4. Removing the Cosmetic duct

1) The cosmetic duct is attached to the cosmetic baffle by 8 external screws.
To detach it, unfasten those screws.

8. SPECIFICATIONS

Amplifier Section

Subwoofer 50W (100Hz, 1% T.H.D.,4Ω)
Surround (Reference)
Front,Center,Rear ..... 30W,per channel(1KHz, 1% T.H.D.,8Ω)
Continuous power output (RMS)
Subwoofer 65W (100Hz, 10% T.H.D.,4Ω)
Surround (Reference)
Front,Center,Rear ..... 40W,per channel(1KHz, 10% T.H.D.,8Ω)

Speaker Section

Powered subwoofer
Type ..... BASS reflex floor type,antimagnetic (EIAJ)
Speaker ..... 16cm (6 in.) (cone type)
Nominal impedance 4Ω
Frequency range ..... 31Hz to 300 Hz
Max. input ..... 65W (EIAJ)

Front, Rear, Center speakers (Reference)
Type Sealed ,antimagnetic (EIAJ)
Speaker ..... 8.7cm (3-7/16 in.) (cone type)
Nominal impedance 8Ω
Frequency range ..... 100Hz to 20,000 Hz
Max. input ..... 40W (EIAJ)

Power Supply Section

Power requirements (/DBXJI, DLXJI/NC Model) .....
..... AC110-120V/AC220-230V/AC240V, 50/60Hz
Power requirements (/YPWXJI Model) AC240V, 50/60Hz

Power consumption (DVD Tuner + Powered subwoofer) .....
/DBXJ 410W
/YPWXJI 175W
/DLXJI 165W

Power consumption in standby mode 1W

Miscellaneous

Powered subwoofer unit
Dimensions ..... 190 (W) × 418 (D) × 420 (H) mm
(7-1/2 (W) × 16-3/4 (D) × 17 (H)in.)
Weight ..... 13.9 kg (30.64 lbs)
Front, Rear speakers (Reference)
Dimensions (S-DV77ST) ..... 112 (W) × 77 (D) × 144 (H) mm
(4-5/16 (W) × 2-15/16 (D) × 6 (H)in.)
Weight (S-DV77ST) ..... 0.77 kg (1.7 lbs)

Center speaker (Reference)
Dimensions (S-DV77ST) ..... 196 (W) × 76 (D) × 105 (H) mm
(8-1/2 (W) × 2-15/16 (D) × 4-5/16 (H)in.)
Weight (S-DV77ST) ..... 0.82 kg (1.8 lbs)

Note : Speciffication and the desine is subject to possible modiffication without notice due to improvement.